



ATOM	1	CB	GLU	1	55.907	11.986	66.300	1.00	59.11	AAAA C
ATOM	2	CG	GLU	1	56.138	11.019	65.162	1.00	78.17	AAAA C
ATOM	3	CD	GLU	1	57.382	11.319	64.321	1.00	85.10	AAAA C
ATOM	4	OE1	GLU	1	58.404	10.754	64.796	1.00	86.18	AAAA O
ATOM	5	OE2	GLU	1	57.424	12.013	63.270	1.00	78.70	AAAA O
ATOM	6	C	GLU	1	53.508	12.557	66.350	1.00	48.46	AAAA O
ATOM	7	O	GLU	1	52.685	11.863	65.784	1.00	51.27	AAAA O
ATOM	10	N	GLU	1	54.256	10.338	67.159	1.00	61.64	AAAA N
ATOM	12	CA	GLU	1	54.602	11.778	67.081	1.00	54.77	AAAA C
ATOM	13	N	ILE	2	53.608	13.860	66.375	1.00	37.66	AAAA N
ATOM	15	CA	ILE	2	52.768	14.699	65.604	1.00	40.87	AAAA C
ATOM	16	CB	ILE	2	52.925	16.122	66.160	1.00	41.97	AAAA C
ATOM	17	CG2	ILE	2	52.036	17.122	65.484	1.00	38.50	AAAA C
ATOM	18	CG1	ILE	2	52.560	16.006	67.663	1.00	46.58	AAAA C
ATOM	19	CD1	ILE	2	53.150	17.176	68.498	1.00	32.29	AAAA C
ATOM	20	C	ILE	2	53.122	14.711	64.139	1.00	46.47	AAAA C
ATOM	21	O	ILE	2	54.258	15.029	63.852	1.00	51.66	AAAA O
ATOM	22	N	CYS	3	52.235	14.409	63.196	1.00	49.61	AAAA N
ATOM	24	CA	CYS	3	52.435	14.677	61.773	1.00	38.93	AAAA C
ATOM	25	C	CYS	3	51.429	15.708	61.302	1.00	42.06	AAAA C
ATOM	26	O	CYS	3	50.290	15.521	61.690	1.00	42.37	AAAA O
ATOM	27	CB	CYS	3	52.159	13.415	60.999	1.00	35.66	AAAA C
ATOM	28	SG	CYS	3	53.019	12.004	61.674	1.00	36.98	AAA S
ATOM	29	N	GLY	4	51.851	16.709	60.580	1.00	42.39	AAAA N
ATOM	31	CA	GLY	4	50.973	17.718	60.003	1.00	47.71	AAAA C
ATOM	32	C	GLY	4	51.703	18.407	58.869	1.00	48.23	AAAA C
ATOM	33	O	GLY	4	52.916	18.345	58.884	1.00	55.36	AAAA O
ATOM	34	N	PRO	5	51.056	19.212	58.048	1.00	49.63	AAAA N
ATOM	35	CD	PRO	5	51.637	19.947	56.860	1.00	45.28	AAAA C
ATOM	36	CA	PRO	5	49.605	19.341	58.083	1.00	41.57	AAAA C
ATOM	37	CB	PRO	5	49.397	20.703	57.474	1.00	44.30	AAAA C
ATOM	38	CG	PRO	5	50.632	21.036	56.683	1.00	46.43	AAAA C
ATOM	39	C	PRO	5	48.932	18.217	57.354	1.00	36.40	AAAA C
ATOM	40	O	PRO	5	49.403	17.094	57.396	1.00	43.35	AAAA O
ATOM	41	N	GLY	6	47.787	18.438	56.795	1.00	39.15	AAAA N
ATOM	43	CA	GLY	6	46.896	17.336	56.350	1.00	39.24	AAAA C
ATOM	44	C	GLY	6	47.710	16.365	55.529	1.00	33.68	AAAA C
ATOM	45	O	GLY	6	48.510	16.863	54.753	1.00	36.00	AAAA O
ATOM	46	N	ILE	7	47.586	15.111	55.788	1.00	35.70	AAAA N
ATOM	48	CA	ILE	7	48.307	14.053	55.141	1.00	37.65	AAAA C
ATOM	49	CB	ILE	7	48.556	12.797	55.933	1.00	36.31	AAAA C
ATOM	50	CG2	ILE	7	49.043	11.700	54.988	1.00	34.67	AAAA C
ATOM	51	CG1	ILE	7	49.561	12.857	57.067	1.00	39.34	AAAA C
ATOM	52	CD1	ILE	7	49.678	14.249	57.668	1.00	40.22	AAAA C
ATOM	53	C	ILE	7	47.338	13.762	53.977	1.00	45.00	AAAA C
ATOM	54	O	ILE	7	46.150	13.843	54.195	1.00	51.52	AAAA O
ATOM	55	N	ASP	8	47.767	13.631	52.751	1.00	45.60	AAAA N
ATOM	57	CA	ASP	8	46.938	13.283	51.631	1.00	44.05	AAAA C
ATOM	58	CB	ASP	8	47.003	14.469	50.651	1.00	44.21	AAA C
ATOM	59	CG	ASP	8	45.909	14.379	49.600	1.00	43.48	AAA C
ATOM	60	OD1	ASP	8	45.660	13.262	49.096	1.00	51.77	AAA O
ATOM	61	OD2	ASP	8	45.253	15.374	49.251	1.00	46.84	AAA O
ATOM	62	C	ASP	8	47.428	12.000	50.992	1.00	42.16	AAA C
ATOM	63	O	ASP	8	48.423	12.143	50.330	1.00	48.50	AAA O
ATOM	64	N	ILE	9	47.096	10.817	51.321	1.00	42.76	AAA N
ATOM	66	CA	ILE	9	47.441	9.505	50.939	1.00	44.05	AAA C
ATOM	67	CB	ILE	9	47.212	8.483	52.077	1.00	40.82	AAA C
ATOM	68	CG2	ILE	9	47.669	7.085	51.653	1.00	36.35	AAA C
ATOM	69	CG1	ILE	9	47.888	8.917	53.364	1.00	41.17	AAA C
ATOM	70	CD1	ILE	9	49.376	8.947	53.286	1.00	43.78	AAA C
ATOM	71	C	ILE	9	46.530	9.137	49.794	1.00	51.48	AAA C
ATOM	72	O	ILE	9	45.338	9.420	49.832	1.00	63.05	AAA O
ATOM	73	N	ARG	10	47.004	8.417	48.812	1.00	54.87	AAA N
ATOM	75	CA	ARG	10	46.283	8.089	47.600	1.00	54.17	AAA C
ATOM	76	CB	ARG	10	45.703	9.358	47.023	1.00	48.54	AAA C
ATOM	77	CG	ARG	10	46.361	10.169	45.952	1.00	46.55	AAA C
ATOM	78	CD	ARG	10	46.002	11.635	46.264	1.00	52.63	AAA C
ATOM	79	NE	ARG	10	45.082	12.226	45.284	1.00	59.27	AAA N
ATOM	81	CZ	ARG	10	44.269	13.262	45.498	1.00	56.22	AAA C
ATOM	82	NH1	ARG	10	44.153	13.891	46.666	1.00	55.14	AAA N
ATOM	85	NH2	ARG	10	43.455	13.803	44.602	1.00	52.29	AAA N
ATOM	88	C	ARG	10	47.019	7.373	46.492	1.00	57.23	AAA C
ATOM	89	O	ARG	10	48.240	7.288	46.281	1.00	56.32	AAA O
ATOM	90	N	ASN	11	46.248	6.654	45.629	1.00	57.23	AAA N
ATOM	92	CA	ASN	11	46.800	5.917	44.494	1.00	50.73	AAA C
ATOM	93	CB	ASN	11	47.704	6.798	43.671	1.00	44.65	AAA C
ATOM	94	CG	ASN	11	46.878	7.732	42.829	1.00	50.72	AAA C
ATOM	95	OD1	ASN	11	45.749	7.451	42.403	1.00	72.59	AAA O
ATOM	96	ND2	ASN	11	47.499	8.869</				

ATOM	99	C	ASN	11	47.635	4.736	44.915	1.00	53.07	AAAAA	C
ATOM	100	O	ASN	11	47.303	3.701	44.347	1.00	51.95	AAAAA	O
ATOM	101	N	ASP	12	48.566	4.822	45.878	1.00	50.96	AAAAA	N
ATOM	103	CA	ASP	12	49.204	3.570	46.263	1.00	55.44	AAAAA	C
ATOM	104	CB	ASP	12	50.668	3.568	45.758	1.00	66.47	AAAAA	C
ATOM	105	CG	ASP	12	50.879	4.026	44.314	1.00	68.25	AAAAA	C
ATOM	106	OD1	ASP	12	50.441	3.185	43.457	1.00	58.31	AAAAA	O
ATOM	107	OD2	ASP	12	51.391	5.120	43.989	1.00	70.56	AAAAA	O
ATOM	108	C	ASP	12	49.061	3.322	47.758	1.00	59.23	AAAAA	C
ATOM	109	O	ASP	12	49.687	3.849	48.711	1.00	59.65	AAAAA	O
ATOM	110	N	TYR	13	48.411	2.187	48.036	1.00	59.64	AAAAA	N
ATOM	112	CA	TYR	13	48.328	1.672	49.397	1.00	64.06	AAAAA	C
ATOM	113	CB	TYR	13	47.968	0.196	49.409	1.00	64.56	AAAAA	C
ATOM	114	CG	TYR	13	47.467	-0.357	50.721	1.00	69.18	AAAAA	C
ATOM	115	CD1	TYR	13	46.216	-0.024	51.248	1.00	72.71	AAAAA	C
ATOM	116	CE1	TYR	13	45.746	-0.541	52.450	1.00	71.51	AAAAA	C
ATOM	117	CD2	TYR	13	48.233	-1.247	51.457	1.00	70.36	AAAAA	C
ATOM	118	CE2	TYR	13	47.788	-1.778	52.661	1.00	71.64	AAAAA	C
ATOM	119	CZ	TYR	13	46.542	-1.420	53.160	1.00	71.31	AAAAA	C
ATOM	120	OH	TYR	13	46.144	-1.977	54.358	1.00	63.25	AAAAA	O
ATOM	122	C	TYR	13	49.622	1.839	50.198	1.00	65.99	AAAAA	C
ATOM	123	O	TYR	13	49.621	2.321	51.354	1.00	65.01	AAAAA	O
ATOM	124	N	GLN	14	50.786	1.541	49.594	1.00	63.51	AAAAA	N
ATOM	126	CA	GLN	14	52.078	1.681	50.218	1.00	63.51	AAAAA	C
ATOM	127	CB	GLN	14	53.174	1.318	49.219	1.00	68.37	AAAAA	C
ATOM	128	CG	GLN	14	52.863	-0.078	48.686	1.00	84.62	AAAAA	C
ATOM	129	CD	GLN	14	53.990	-0.515	47.754	1.00	92.28	AAAAA	C
ATOM	130	OE1	GLN	14	53.945	-0.161	46.573	1.00	94.82	AAAAA	O
ATOM	131	NE2	GLN	14	54.920	-1.254	48.361	1.00	98.03	AAAAA	N
ATOM	134	C	GLN	14	52.434	3.058	50.753	1.00	61.62	AAAAA	C
ATOM	135	O	GLN	14	53.266	3.292	51.644	1.00	62.09	AAAAA	O
ATOM	136	N	GLN	15	51.628	4.038	50.349	1.00	57.02	AAAAA	N
ATOM	138	CA	GLN	15	51.724	5.399	50.834	1.00	51.71	AAAAA	C
ATOM	139	CB	GLN	15	50.861	6.220	49.911	1.00	43.75	AAAAA	C
ATOM	140	CG	GLN	15	51.566	6.605	48.648	1.00	59.65	AAAAA	C
ATOM	141	CD	GLN	15	51.554	8.105	48.428	1.00	72.96	AAAAA	C
ATOM	142	OE1	GLN	15	51.168	9.005	49.184	1.00	80.58	AAAAA	O
ATOM	143	NE2	GLN	15	52.016	8.378	47.211	1.00	74.17	AAAAA	N
ATOM	146	C	GLN	15	51.219	5.530	52.258	1.00	50.15	AAAAA	C
ATOM	147	O	GLN	15	51.576	6.500	52.940	1.00	48.04	AAAAA	O
ATOM	148	N	LEU	16	50.440	4.535	52.688	1.00	46.22	AAAAA	N
ATOM	150	CA	LEU	16	49.913	4.449	54.019	1.00	45.52	AAAAA	C
ATOM	151	CB	LEU	16	48.950	3.295	54.159	1.00	37.73	AAAAA	C
ATOM	152	CG	LEU	16	47.502	3.425	53.707	1.00	41.40	AAAAA	C
ATOM	153	CD1	LEU	16	46.837	2.063	53.790	1.00	42.43	AAAAA	C
ATOM	154	CD2	LEU	16	46.687	4.424	54.545	1.00	35.93	AAAAA	C
ATOM	155	C	LEU	16	51.042	4.280	55.039	1.00	51.52	AAAAA	C
ATOM	156	O	LEU	16	50.913	4.601	56.235	1.00	52.53	AAAAA	O
ATOM	157	N	LYS	17	52.252	3.936	54.560	1.00	51.01	AAAAA	N
ATOM	159	CA	LYS	17	53.422	3.914	55.404	1.00	50.73	AAAAA	C
ATOM	160	CB	LYS	17	54.609	3.252	54.737	1.00	56.10	AAAAA	C
ATOM	161	CG	LYS	17	54.539	1.733	54.831	1.00	62.40	AAAAA	C
ATOM	162	CD	LYS	17	54.768	1.278	53.387	1.00	63.85	AAAAA	C
ATOM	163	CE	LYS	17	55.316	-0.141	53.426	1.00	68.40	AAAAA	C
ATOM	164	NZ	LYS	17	56.537	-0.225	52.554	1.00	73.83	AAAAA	N
ATOM	168	C	LYS	17	53.944	5.270	55.852	1.00	44.78	AAAAA	C
ATOM	169	O	LYS	17	54.492	5.262	56.933	1.00	39.39	AAAAA	O
ATOM	170	N	ARG	18	53.524	6.344	55.201	1.00	41.15	AAAAA	N
ATOM	172	CA	ARG	18	53.827	7.673	55.676	1.00	43.01	AAAAA	C
ATOM	173	CB	ARG	18	53.250	8.702	54.704	1.00	43.97	AAAAA	C
ATOM	174	CG	ARG	18	53.888	8.764	53.333	1.00	53.60	AAAAA	C
ATOM	175	CD	ARG	18	52.964	9.362	52.269	1.00	60.34	AAAAA	C
ATOM	176	NE	ARG	18	52.528	10.703	52.650	1.00	50.00	AAAAA	N
ATOM	178	CZ	ARG	18	51.628	11.444	52.021	1.00	48.86	AAAAA	C
ATOM	179	NH1	ARG	18	51.068	10.941	50.943	1.00	47.96	AAAAA	N
ATOM	182	NH2	ARG	18	51.377	12.656	52.555	1.00	43.72	AAAAA	N
ATOM	185	C	ARG	18	53.268	7.924	57.077	1.00	44.03	AAAAA	C
ATOM	186	O	ARG	18	53.402	9.010	57.644	1.00	45.53	AAAAA	O
ATOM	187	N	LEU	19	52.445	7.069	57.632	1.00	46.36	AAAAA	N
ATOM	189	CA	LEU	19	51.653	7.282	58.794	1.00	50.25	AAAAA	C
ATOM	190	CB	LEU	19	50.186	6.924	58.674	1.00	50.83	AAAAA	C
ATOM	191	CG	LEU	19	49.202	7.371	57.608	1.00	46.43	AAAAA	C
ATOM	192	CD1	LEU	19	47.846	6.743	57.852	1.00	22.57	AAAAA	C
ATOM	193	CD2	LEU	19	49.018	8.866	57.495	1.00	45.88	AAAAA	C
ATOM	194										

ATOM	200	CG	GLU	20	55.893	4.840	59.272	1.00	70.16	AAAAA	C
ATOM	201	CD	GLU	20	57.095	4.077	58.757	1.00	69.35	AAAAA	C
ATOM	202	OE1	GLU	20	58.123	4.795	58.722	1.00	71.38	AAAAA	O
ATOM	203	OE2	GLU	20	56.993	2.885	58.420	1.00	72.84	AAAAA	O
ATOM	204	C	GLU	20	54.310	5.417	61.989	1.00	43.55	AAAAA	C
ATOM	205	O	GLU	20	54.301	4.652	62.937	1.00	40.01	AAAAA	O
ATOM	206	N	ASN	21	54.633	6.659	62.207	1.00	41.06	AAAAA	N
ATOM	208	CA	ASN	21	55.054	7.204	63.454	1.00	47.17	AAAAA	C
ATOM	209	C	ASN	21	54.066	8.141	64.108	1.00	49.76	AAAAA	C
ATOM	210	O	ASN	21	54.228	8.456	65.303	1.00	48.10	AAAAA	O
ATOM	211	CB	ASN	21	56.379	8.003	63.290	1.00	59.11	AAAAA	C
ATOM	212	CG	ASN	21	57.413	7.051	62.796	1.00	68.38	AAAAA	C
ATOM	213	OD1	ASN	21	57.499	5.855	63.122	1.00	58.51	AAAAA	O
ATOM	214	ND2	ASN	21	58.348	7.469	61.890	1.00	77.90	AAAAA	N
ATOM	216	N	CYS	22	53.129	8.711	63.351	1.00	47.44	AAAAA	N
ATOM	218	CA	CYS	22	52.107	9.614	63.879	1.00	42.99	AAAAA	C
ATOM	219	C	CYS	22	51.215	9.089	65.021	1.00	40.43	AAAAA	C
ATOM	220	O	CYS	22	50.750	7.923	65.069	1.00	36.07	AAAAA	O
ATOM	221	CB	CYS	22	51.182	9.921	62.690	1.00	44.82	AAAAA	C
ATOM	222	SG	CYS	22	52.076	10.328	61.148	1.00	39.51	AAAAA	S
ATOM	223	N	THR	23	51.287	9.801	66.137	1.00	36.24	AAAAA	N
ATOM	225	CA	THR	23	50.339	9.482	67.204	1.00	43.51	AAAAA	C
ATOM	226	CB	THR	23	50.944	9.481	68.593	1.00	41.38	AAAAA	C
ATOM	227	OG1	THR	23	51.410	10.843	68.822	1.00	51.21	AAAAA	O
ATOM	229	CG2	THR	23	52.110	8.571	68.838	1.00	33.83	AAAAA	C
ATOM	230	C	THR	23	49.250	10.599	67.116	1.00	44.55	AAAAA	C
ATOM	231	O	THR	23	48.085	10.414	67.481	1.00	45.95	AAAAA	O
ATOM	232	N	VAL	24	49.646	11.797	66.689	1.00	33.03	AAAAA	N
ATOM	234	CA	VAL	24	48.732	12.855	66.442	1.00	35.29	AAAAA	C
ATOM	235	CB	VAL	24	48.925	13.979	67.456	1.00	30.60	AAAAA	C
ATOM	236	CG1	VAL	24	48.056	15.157	67.082	1.00	27.21	AAAAA	C
ATOM	237	CG2	VAL	24	48.656	13.566	68.886	1.00	25.37	AAAAA	C
ATOM	238	C	VAL	24	48.895	13.447	65.043	1.00	41.52	AAAAA	C
ATOM	239	O	VAL	24	49.987	13.963	64.791	1.00	44.40	AAAAA	O
ATOM	240	N	ILE	25	47.855	13.450	64.203	1.00	40.13	AAAAA	N
ATOM	242	CA	ILE	25	47.908	14.094	62.882	1.00	32.05	AAAAA	C
ATOM	243	CB	ILE	25	47.113	13.299	61.853	1.00	25.85	AAAAA	C
ATOM	244	CG2	ILE	25	47.027	14.039	60.542	1.00	18.73	AAAAA	C
ATOM	245	CG1	ILE	25	47.677	11.896	61.705	1.00	29.80	AAAAA	C
ATOM	246	CD1	ILE	25	47.169	11.155	60.471	1.00	27.41	AAAAA	C
ATOM	247	C	ILE	25	47.397	15.490	62.941	1.00	32.92	AAAAA	C
ATOM	248	O	ILE	25	46.223	15.776	63.213	1.00	40.91	AAAAA	O
ATOM	249	N	GLU	26	48.264	16.472	63.042	1.00	36.60	AAAAA	N
ATOM	251	CA	GLU	26	47.832	17.847	63.226	1.00	29.24	AAAAA	C
ATOM	252	CB	GLU	26	48.875	18.703	63.856	1.00	29.92	AAAAA	C
ATOM	253	CG	GLU	26	48.490	20.144	64.116	1.00	38.06	AAAAA	C
ATOM	254	CD	GLU	26	49.561	20.762	65.013	1.00	37.39	AAAAA	C
ATOM	255	OE1	GLU	26	50.654	20.937	64.489	1.00	41.56	AAAAA	O
ATOM	256	OE2	GLU	26	49.571	21.175	66.182	1.00	49.16	AAAAA	O
ATOM	257	C	GLU	26	47.413	18.376	61.869	1.00	37.79	AAAAA	C
ATOM	258	O	GLU	26	48.161	19.069	61.181	1.00	39.68	AAAAA	O
ATOM	259	N	GLY	27	46.117	18.104	61.582	1.00	37.28	AAAAA	N
ATOM	261	CA	GLY	27	45.498	18.503	60.320	1.00	31.17	AAAAA	C
ATOM	262	C	GLY	27	44.531	17.400	59.893	1.00	33.72	AAAAA	C
ATOM	263	O	GLY	27	43.988	16.715	60.775	1.00	33.29	AAAAA	O
ATOM	264	N	TYR	28	44.304	17.209	58.604	1.00	29.24	AAAAA	N
ATOM	266	CA	TYR	28	43.318	16.189	58.253	1.00	28.93	AAAAA	C
ATOM	267	CB	TYR	28	42.403	16.794	57.217	1.00	31.53	AAAAA	C
ATOM	268	CG	TYR	28	43.058	17.256	55.962	1.00	31.78	AAAAA	C
ATOM	269	CD1	TYR	28	43.704	16.355	55.116	1.00	36.07	AAAAA	C
ATOM	270	CE1	TYR	28	44.361	16.706	53.967	1.00	28.91	AAAAA	C
ATOM	271	CD2	TYR	28	43.130	18.572	55.606	1.00	30.98	AAAAA	C
ATOM	272	CE2	TYR	28	43.769	18.972	54.428	1.00	28.77	AAAAA	C
ATOM	273	CZ	TYR	28	44.367	18.021	53.652	1.00	31.53	AAAAA	C
ATOM	274	OH	TYR	28	44.971	18.425	52.464	1.00	44.74	AAAAA	O
ATOM	276	C	TYR	28	43.953	14.946	57.697	1.00	29.23	AAAAA	C
ATOM	277	O	TYR	28	45.119	15.147	57.383	1.00	35.58	AAAAA	O
ATOM	278	N	LEU	29	43.250	13.900	57.445	1.00	26.63	AAAAA	N
ATOM	280	CA	LEU	29	43.764	12.730	56.803	1.00	29.83	AAAAA	C
ATOM	281	CB	LEU	29	43.830	11.611	57.856	1.00	27.09	AAAAA	C
ATOM	282	CG	LEU	29	44.212	10.258	57.242	1.00	31.90	AAAAA	C
ATOM	283	CD1	LEU	29	45.538	10.396	56.469	1.00	35.03	AAAAA	C
ATOM	284	CD2	LEU	29	44.551	9.203	58.290	1.00	25.05	AAAAA	C
ATOM	285	C	LEU	29	42.897	12.342	55.616	1.00	33.8		

ATOM	291	CG	HIS	30	42.372	14.155	52.046	1.00	25.08	AAAAA	C
ATOM	292	CD2	HIS	30	41.519	14.753	52.907	1.00	40.88	AAAAA	C
ATOM	293	ND1	HIS	30	42.717	15.120	51.128	1.00	33.66	AAAAA	N
ATOM	295	CE1	HIS	30	42.080	16.281	51.444	1.00	31.33	AAAAA	C
ATOM	296	NE2	HIS	30	41.329	16.093	52.539	1.00	37.27	AAAAA	N
ATOM	298	C	HIS	30	43.173	10.538	52.714	1.00	37.68	AAAAA	C
ATOM	299	O	HIS	30	44.357	10.388	52.541	1.00	38.70	AAAAA	O
ATOM	300	N	ILE	31	42.308	9.542	52.584	1.00	40.02	AAAAA	N
ATOM	302	CA	ILE	31	42.750	8.271	51.992	1.00	39.47	AAAAA	C
ATOM	303	CB	ILE	31	42.668	7.204	53.063	1.00	37.95	AAAAA	C
ATOM	304	CG2	ILE	31	43.161	5.830	52.651	1.00	23.86	AAAAA	C
ATOM	305	CG1	ILE	31	43.481	7.555	54.335	1.00	41.66	AAAAA	C
ATOM	306	CD1	ILE	31	43.170	6.575	55.473	1.00	28.22	AAAAA	C
ATOM	307	C	ILE	31	41.884	8.044	50.755	1.00	46.52	AAAAA	C
ATOM	308	O	ILE	31	40.753	7.589	50.827	1.00	43.56	AAAAA	O
ATOM	309	N	LEU	32	42.314	8.489	49.556	1.00	49.89	AAAAA	N
ATOM	311	CA	LEU	32	41.484	8.235	48.380	1.00	49.77	AAAAA	C
ATOM	312	CB	LEU	32	41.127	9.515	47.603	1.00	47.48	AAAAA	C
ATOM	313	CG	LEU	32	42.091	10.688	47.562	1.00	45.33	AAAAA	C
ATOM	314	CD1	LEU	32	41.517	11.812	46.673	1.00	35.77	AAAAA	C
ATOM	315	CD2	LEU	32	42.371	11.229	48.960	1.00	49.18	AAAAA	C
ATOM	316	C	LEU	32	42.136	7.296	47.353	1.00	51.00	AAAAA	C
ATOM	317	O	LEU	32	43.338	7.370	47.186	1.00	41.36	AAAAA	O
ATOM	318	N	LEU	33	41.270	6.722	46.497	1.00	50.74	AAAAA	N
ATOM	320	CA	LEU	33	41.602	6.175	45.197	1.00	49.92	AAAAA	C
ATOM	321	CB	LEU	33	42.091	7.262	44.182	1.00	34.83	AAAAA	C
ATOM	322	CG	LEU	33	41.233	8.537	44.164	1.00	33.92	AAAAA	C
ATOM	323	CD1	LEU	33	41.892	9.587	43.298	1.00	37.49	AAAAA	C
ATOM	324	CD2	LEU	33	39.823	8.313	43.644	1.00	33.01	AAAAA	C
ATOM	325	C	LEU	33	42.618	5.073	45.287	1.00	48.35	AAAAA	C
ATOM	326	O	LEU	33	43.580	5.077	44.538	1.00	54.14	AAAAA	O
ATOM	327	N	ILE	34	42.543	4.212	46.254	1.00	47.61	AAAAA	N
ATOM	329	CA	ILE	34	43.523	3.184	46.540	1.00	51.70	AAAAA	C
ATOM	330	CB	ILE	34	44.101	3.346	47.963	1.00	57.98	AAAAA	C
ATOM	331	CG2	ILE	34	44.538	2.043	48.600	1.00	48.98	AAAAA	C
ATOM	332	CG1	ILE	34	45.267	4.371	47.967	1.00	46.70	AAAAA	C
ATOM	333	CD1	ILE	34	45.561	4.704	49.439	1.00	65.47	AAAAA	C
ATOM	334	C	ILE	34	42.829	1.844	46.408	1.00	59.85	AAAAA	C
ATOM	335	O	ILE	34	41.726	1.531	46.856	1.00	60.11	AAAAA	O
ATOM	336	N	SER	35	43.622	0.833	46.013	1.00	67.79	AAAAA	N
ATOM	338	CA	SER	35	43.048	-0.511	45.922	1.00	68.80	AAAAA	C
ATOM	339	CB	SER	35	42.767	-0.882	44.469	1.00	64.16	AAAAA	C
ATOM	340	OG	SER	35	41.731	-1.846	44.498	1.00	75.76	AAAAA	O
ATOM	342	C	SER	35	43.928	-1.564	46.537	1.00	70.73	AAAAA	C
ATOM	343	O	SER	35	44.885	-1.954	45.909	1.00	73.65	AAAAA	O
ATOM	344	N	LYS	36	43.687	-2.017	47.740	1.00	74.75	AAAAA	N
ATOM	346	CA	LYS	36	44.465	-3.014	48.421	1.00	76.09	AAAAA	C
ATOM	347	CB	LYS	36	44.046	-3.131	49.885	1.00	81.22	AAAAA	C
ATOM	348	CG	LYS	36	45.147	-3.654	50.775	1.00	78.87	AAAAA	C
ATOM	349	CD	LYS	36	44.693	-4.575	51.887	1.00	81.39	AAAAA	C
ATOM	350	CE	LYS	36	44.890	-6.025	51.492	1.00	89.38	AAAAA	C
ATOM	351	NZ	LYS	36	44.371	-6.989	52.506	1.00	91.63	AAAAA	N
ATOM	355	C	LYS	36	44.252	-4.362	47.753	1.00	81.41	AAAAA	C
ATOM	356	O	LYS	36	43.145	-4.772	47.451	1.00	78.20	AAAAA	O
ATOM	357	N	ALA	37	45.371	-5.080	47.615	1.00	88.27	AAAAA	N
ATOM	359	CA	ALA	37	45.361	-6.396	46.986	1.00	90.10	AAAAA	C
ATOM	360	CB	ALA	37	46.700	-6.655	46.327	1.00	95.49	AAAAA	C
ATOM	361	C	ALA	37	45.011	-7.473	47.995	1.00	92.36	AAAAA	C
ATOM	362	O	ALA	37	45.668	-7.627	49.012	1.00	92.35	AAAAA	O
ATOM	363	N	SER	38	44.031	-8.301	47.622	1.00	94.31	AAAAA	N
ATOM	365	CA	SER	38	43.528	-9.352	48.484	1.00	95.70	AAAAA	C
ATOM	366	CB	SER	38	42.405	-10.164	47.858	1.00	97.44	AAAAA	C
ATOM	367	OG	SER	38	42.061	-11.176	48.814	1.00	103.48	AAAAA	O
ATOM	369	C	SER	38	44.702	-10.263	48.821	1.00	96.87	AAAAA	C
ATOM	370	O	SER	38	44.761	-10.778	49.924	1.00	98.06	AAAAA	O
ATOM	371	N	ASP	39	45.584	-10.415	47.852	1.00	97.99	AAAAA	N
ATOM	373	CA	ASP	39	46.821	-11.148	47.980	1.00	99.19	AAAAA	C
ATOM	374	CB	ASP	39	47.579	-11.050	46.652	1.00	102.13	AAAAA	C
ATOM	375	CG	ASP	39	47.696	-12.387	45.948	0.01	101.22	AAAAA	C
ATOM	376	OD1	ASP	39	46.644	-12.978	45.623	0.01	101.42	AAAAA	O
ATOM	377	OD2	ASP	39	48.833	-12.848	45.718	0.01	101.41	AAAAA	O
ATOM	378	C	ASP	39	47.660	-10.564	49.105	1.00	99.40	AAAAA	C
ATOM	379	O	ASP	39	47.692	-11.056	50.224	1.00	99.15	AAAAA	O
ATOM	380	N	TYR	40	48.354	-9.479	48.818	1.00	100.96	AAAAA	N
ATOM	382	CA</									

ATOM	386	CE1	TYR	40	51.540	-4.280	49.910	1.00109.67	AAAAA C
ATOM	387	CD2	TYR	40	50.044	-6.115	51.254	1.00109.28	AAAAA C
ATOM	388	CE2	TYR	40	50.618	-5.102	51.976	1.00109.83	AAAAA C
ATOM	389	CZ	TYR	40	51.372	-4.181	51.276	1.00110.16	AAAAA C
ATOM	390	OH	TYR	40	51.999	-3.127	51.893	1.00109.84	AAAAA O
ATOM	392	C	TYR	40	48.343	-8.529	51.100	1.00 99.10	AAAAA C
ATOM	393	O	TYR	40	47.168	-8.182	51.183	1.00 99.05	AAAAA O
ATOM	394	N	LYS	41	49.041	-8.653	52.218	1.00 98.62	AAAAA N
ATOM	396	CA	LYS	41	48.443	-8.549	53.546	1.00100.30	AAAAA C
ATOM	397	CB	LYS	41	49.385	-9.160	54.599	1.00104.42	AAAAA C
ATOM	398	CG	LYS	41	49.218	-10.649	54.814	0.01101.06	AAAAA C
ATOM	399	CD	LYS	41	47.776	-11.107	54.919	0.01100.66	AAAAA C
ATOM	400	CE	LYS	41	47.205	-10.880	56.308	0.01 99.86	AAAAA C
ATOM	401	NZ	LYS	41	47.882	-11.728	57.328	0.01 99.62	AAAAA N
ATOM	405	C	LYS	41	48.035	-7.136	53.947	1.00 98.99	AAAAA C
ATOM	406	O	LYS	41	47.615	-6.371	53.057	1.00103.33	AAAAA O
ATOM	407	N	SER	42	48.198	-6.754	55.221	1.00 91.75	AAAAA N
ATOM	409	CA	SER	42	47.825	-5.412	55.604	1.00 85.06	AAAAA C
ATOM	410	CB	SER	42	46.385	-5.520	56.147	1.00 95.33	AAAAA C
ATOM	411	OG	SER	42	46.547	-6.140	57.426	1.00104.63	AAAAA O
ATOM	413	C	SER	42	48.628	-4.715	56.687	1.00 80.78	AAAAA C
ATOM	414	O	SER	42	49.326	-5.259	57.538	1.00 81.03	AAAAA O
ATOM	415	N	TYR	43	48.495	-3.395	56.676	1.00 73.03	AAAAA N
ATOM	417	CA	TYR	43	49.069	-2.488	57.635	1.00 67.25	AAAAA C
ATOM	418	CB	TYR	43	49.086	-1.119	56.965	1.00 65.37	AAAAA C
ATOM	419	CG	TYR	43	49.953	-1.021	55.727	1.00 63.92	AAAAA C
ATOM	420	CD1	TYR	43	50.931	-1.935	55.406	1.00 63.87	AAAAA C
ATOM	421	CE1	TYR	43	51.698	-1.781	54.274	1.00 66.09	AAAAA C
ATOM	422	CD2	TYR	43	49.770	0.050	54.870	1.00 63.30	AAAAA C
ATOM	423	CE2	TYR	43	50.536	0.214	53.728	1.00 67.62	AAAAA C
ATOM	424	CZ	TYR	43	51.508	-0.712	53.432	1.00 66.94	AAAAA C
ATOM	425	OH	TYR	43	52.262	-0.563	52.305	1.00 65.23	AAAAA O
ATOM	427	C	TYR	43	48.248	-2.381	58.925	1.00 64.88	AAAAA C
ATOM	428	O	TYR	43	47.088	-2.851	59.030	1.00 62.90	AAAAA O
ATOM	429	N	ARG	44	48.782	-1.567	59.825	1.00 57.88	AAAAA N
ATOM	431	CA	ARG	44	48.019	-1.285	61.039	1.00 56.45	AAAAA C
ATOM	432	CB	ARG	44	47.842	-2.611	61.760	1.00 46.51	AAAAA C
ATOM	433	CG	ARG	44	47.815	-2.375	63.244	1.00 54.66	AAAAA C
ATOM	434	CD	ARG	44	46.885	-3.327	63.986	1.00 58.54	AAAAA C
ATOM	435	NE	ARG	44	47.090	-2.927	65.403	1.00 68.56	AAAAA N
ATOM	437	CZ	ARG	44	46.464	-3.536	66.395	1.00 64.82	AAAAA C
ATOM	438	NH1	ARG	44	45.644	-4.529	66.132	1.00 61.63	AAAAA N
ATOM	441	NH2	ARG	44	46.674	-3.139	67.628	1.00 66.03	AAAAA N
ATOM	444	C	ARG	44	48.811	-0.285	61.845	1.00 55.59	AAAAA C
ATOM	445	O	ARG	44	49.916	-0.552	62.320	1.00 58.43	AAAAA O
ATOM	446	N	PHE	45	48.276	0.866	62.139	1.00 51.13	AAAAA N
ATOM	448	CA	PHE	45	48.865	1.944	62.863	1.00 45.94	AAAAA C
ATOM	449	CB	PHE	45	48.774	3.249	61.978	1.00 35.89	AAAAA C
ATOM	450	CG	PHE	45	49.106	2.937	60.554	1.00 30.29	AAAAA C
ATOM	451	CD1	PHE	45	50.373	3.051	59.998	1.00 45.72	AAAAA C
ATOM	452	CD2	PHE	45	48.127	2.428	59.728	1.00 35.95	AAAAA C
ATOM	453	CE1	PHE	45	50.653	2.715	58.672	1.00 47.76	AAAAA C
ATOM	454	CE2	PHE	45	48.358	2.096	58.406	1.00 39.92	AAAAA C
ATOM	455	CZ	PHE	45	49.612	2.244	57.867	1.00 46.44	AAAAA C
ATOM	456	C	PHE	45	48.181	2.123	64.203	1.00 41.65	AAAAA C
ATOM	457	O	PHE	45	47.708	3.223	64.475	1.00 40.99	AAAAA O
ATOM	458	N	PRO	46	48.494	1.338	65.212	1.00 43.20	AAAAA N
ATOM	459	CD	PRO	46	49.300	0.097	65.132	1.00 47.74	AAAAA C
ATOM	460	CA	PRO	46	48.032	1.530	66.560	1.00 43.34	AAAAA C
ATOM	461	CB	PRO	46	48.514	0.319	67.380	1.00 44.92	AAAAA C
ATOM	462	CG	PRO	46	49.404	-0.464	66.514	1.00 45.48	AAAAA C
ATOM	463	C	PRO	46	48.558	2.768	67.233	1.00 41.30	AAAAA C
ATOM	464	O	PRO	46	48.329	2.830	68.443	1.00 44.57	AAAAA O
ATOM	465	N	LYS	47	49.450	3.533	66.676	1.00 39.33	AAAAA N
ATOM	467	CA	LYS	47	49.991	4.679	67.362	1.00 38.10	AAAAA C
ATOM	468	CB	LYS	47	51.378	4.981	66.852	1.00 48.07	AAAAA C
ATOM	469	CG	LYS	47	52.032	3.995	65.902	1.00 67.95	AAAAA C
ATOM	470	CD	LYS	47	53.563	3.976	65.891	1.00 61.33	AAAAA C
ATOM	471	CE	LYS	47	54.115	4.648	67.147	1.00 72.19	AAAAA C
ATOM	472	NZ	LYS	47	54.024	6.132	66.874	1.00 79.29	AAAAA N
ATOM	476	C	LYS	47	49.014	5.848	67.195	1.00 39.76	AAAAA C
ATOM	477	O	LYS	47	49.189	6.827	67.952	1.00 35.45	AAAAA O
ATOM	478	N	LEU	48	48.300	5.886	66.053	1.00 36.45	AAAAA N
ATOM	480	CA	LEU	48	47.370	7.004	65.800	1.00 40.40	AAAAA C
ATOM	481	CB	LEU	48	46.823	6.919	64.389	1.00 28.59	AAAAA C
ATOM	482	CG	LEU	48	45.947	7.967	63.787	1.00 31.04	AAAAA C
ATOM	483	CD1	LEU	48	46.637	9.310	63.878	1.00 36.86	AAAAA C

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ATOM	484	CD2	LEU	48	45.591	7.738	62.294	1.00	34.49	AAAA	C
ATOM	485	C	LEU	48	46.186	7.022	66.807	1.00	42.21	AAAA	C
ATOM	486	O	LEU	48	45.271	6.187	66.863	1.00	36.48	AAAA	O
ATOM	487	N	THR	49	46.138	8.041	67.673	1.00	38.95	AAAA	N
ATOM	489	CA	THR	49	45.045	8.151	68.574	1.00	37.96	AAAA	C
ATOM	490	CB	THR	49	45.548	8.207	70.034	1.00	48.69	AAAA	C
ATOM	491	OG1	THR	49	46.396	9.340	70.225	1.00	35.90	AAAA	O
ATOM	493	CG2	THR	49	46.230	6.957	70.529	1.00	31.99	AAAA	C
ATOM	494	C	THR	49	44.230	9.425	68.321	1.00	39.48	AAAA	C
ATOM	495	O	THR	49	43.111	9.451	68.837	1.00	34.49	AAAA	O
ATOM	496	N	VAL	50	44.735	10.415	67.605	1.00	37.32	AAAA	N
ATOM	498	CA	VAL	50	43.995	11.664	67.418	1.00	38.72	AAAA	C
ATOM	499	CB	VAL	50	44.293	12.708	68.503	1.00	37.24	AAAA	C
ATOM	500	CG1	VAL	50	43.630	14.066	68.208	1.00	29.96	AAAA	C
ATOM	501	CG2	VAL	50	43.884	12.311	69.913	1.00	32.52	AAAA	C
ATOM	502	C	VAL	50	44.271	12.305	66.048	1.00	37.03	AAAA	C
ATOM	503	O	VAL	50	45.195	11.863	65.431	1.00	37.96	AAAA	O
ATOM	504	N	ILE	51	43.319	12.939	65.415	1.00	37.49	AAAA	N
ATOM	506	CA	ILE	51	43.301	13.575	64.133	1.00	32.48	AAAA	C
ATOM	507	CB	ILE	51	42.346	12.864	63.152	1.00	34.51	AAAA	C
ATOM	508	CG2	ILE	51	41.995	13.802	61.978	1.00	32.31	AAAA	C
ATOM	509	CG1	ILE	51	43.026	11.611	62.671	1.00	30.78	AAAA	C
ATOM	510	CD1	ILE	51	42.358	10.559	61.815	1.00	19.69	AAAA	C
ATOM	511	C	ILE	51	42.659	14.939	64.431	1.00	34.14	AAAA	C
ATOM	512	O	ILE	51	41.546	14.830	64.923	1.00	29.08	AAAA	O
ATOM	513	N	THR	52	43.342	16.058	64.238	1.00	33.93	AAAA	N
ATOM	515	CA	THR	52	42.806	17.305	64.719	1.00	33.83	AAAA	C
ATOM	516	CB	THR	52	43.961	18.338	64.939	1.00	35.39	AAAA	C
ATOM	517	OG1	THR	52	44.726	18.567	63.781	1.00	41.28	AAAA	O
ATOM	519	CG2	THR	52	44.775	17.926	66.134	1.00	22.01	AAAA	C
ATOM	520	C	THR	52	41.741	17.961	63.863	1.00	39.02	AAAA	C
ATOM	521	O	THR	52	41.202	19.030	64.243	1.00	38.88	AAAA	O
ATOM	522	N	GLU	53	41.524	17.477	62.639	1.00	36.93	AAAA	N
ATOM	524	CA	GLU	53	40.434	17.953	61.785	1.00	38.38	AAAA	C
ATOM	525	CB	GLU	53	41.064	18.512	60.483	1.00	29.76	AAAA	C
ATOM	526	CG	GLU	53	42.061	19.552	60.834	1.00	30.48	AAAA	C
ATOM	527	CD	GLU	53	42.517	20.396	59.697	1.00	40.82	AAAA	C
ATOM	528	OE1	GLU	53	42.638	19.908	58.556	1.00	57.56	AAAA	O
ATOM	529	OE2	GLU	53	42.799	21.559	59.931	1.00	35.74	AAAA	O
ATOM	530	C	GLU	53	39.506	16.789	61.388	1.00	39.19	AAAA	C
ATOM	531	O	GLU	53	38.922	16.311	62.386	1.00	38.95	AAAA	O
ATOM	532	N	TYR	54	39.639	16.353	60.102	1.00	30.60	AAAA	N
ATOM	534	CA	TYR	54	38.666	15.342	59.713	1.00	35.96	AAAA	C
ATOM	535	CB	TYR	54	37.654	15.802	58.636	1.00	30.71	AAAA	C
ATOM	536	CG	TYR	54	38.247	16.476	57.388	1.00	21.18	AAAA	C
ATOM	537	CD1	TYR	54	38.487	15.733	56.305	1.00	20.22	AAAA	C
ATOM	538	CE1	TYR	54	38.980	16.243	55.086	1.00	21.04	AAAA	C
ATOM	539	CD2	TYR	54	38.577	17.844	57.307	1.00	23.97	AAAA	C
ATOM	540	CE2	TYR	54	39.049	18.384	56.124	1.00	24.69	AAAA	C
ATOM	541	CZ	TYR	54	39.263	17.569	55.032	1.00	26.72	AAAA	C
ATOM	542	OH	TYR	54	39.763	18.047	53.847	1.00	37.55	AAAA	O
ATOM	544	C	TYR	54	39.405	14.115	59.142	1.00	33.87	AAAA	C
ATOM	545	O	TYR	54	40.513	14.360	58.678	1.00	30.40	AAAA	O
ATOM	546	N	LEU	55	38.683	13.021	59.004	1.00	23.24	AAAA	N
ATOM	548	CA	LEU	55	39.111	11.812	58.454	1.00	30.08	AAAA	C
ATOM	549	CB	LEU	55	39.011	10.663	59.510	1.00	14.78	AAAA	C
ATOM	550	CG	LEU	55	39.349	9.314	58.818	1.00	26.98	AAAA	C
ATOM	551	CD1	LEU	55	40.668	9.477	58.040	1.00	26.66	AAAA	C
ATOM	552	CD2	LEU	55	39.496	8.093	59.705	1.00	14.45	AAAA	C
ATOM	553	C	LEU	55	38.201	11.548	57.238	1.00	37.43	AAAA	C
ATOM	554	O	LEU	55	36.995	11.632	57.427	1.00	39.55	AAAA	O
ATOM	555	N	LEU	56	38.700	11.348	56.035	1.00	41.83	AAAA	N
ATOM	557	CA	LEU	56	37.955	11.201	54.799	1.00	36.98	AAAA	C
ATOM	558	CB	LEU	56	37.998	12.446	53.949	1.00	33.29	AAAA	C
ATOM	559	CG	LEU	56	37.984	12.514	52.416	1.00	30.35	AAAA	C
ATOM	560	CD1	LEU	56	37.076	11.460	51.821	1.00	47.95	AAAA	C
ATOM	561	CD2	LEU	56	37.286	13.807	51.985	1.00	33.47	AAAA	C
ATOM	562	C	LEU	56	38.595	10.047	54.008	1.00	39.75	AAAA	C
ATOM	563	O	LEU	56	39.714	10.205	53.547	1.00	44.38	AAAA	O
ATOM	564	N	LEU	57	37.846	9.008	53.800	1.00	36.68	AAAA	N
ATOM	566	CA	LEU	57	38.133	7.832	53.034	1.00	41.53	AAAA	C
ATOM	567	CB	LEU	57	37.944	6.588	53.916	1.00	37.00	AAAA	C
ATOM	568	CG	LEU	57	39.064	6.534	55.026	1.00	36.13	AAAA	C
ATOM	569	CD1	LEU	57	38.513	6.890	56.417	1.00	33.26	AAAA	C
ATOM	570	CD2	LEU	57							

ATOM	573	N	PHE	58	37.792	7.898	50.642	1.00	47.07	AAAAA	N
ATOM	575	CA	PHE	58	36.895	8.002	49.467	1.00	48.75	AAAAA	C
ATOM	576	CB	PHE	58	36.704	9.448	49.102	1.00	46.67	AAAAA	C
ATOM	577	CG	PHE	58	36.447	9.815	47.692	1.00	54.66	AAAAA	C
ATOM	578	CD1	PHE	58	37.413	9.706	46.697	1.00	55.19	AAAAA	C
ATOM	579	CD2	PHE	58	35.200	10.301	47.326	1.00	53.86	AAAAA	C
ATOM	580	CE1	PHE	58	37.124	10.063	45.396	1.00	50.36	AAAAA	C
ATOM	581	CE2	PHE	58	34.885	10.655	46.011	1.00	41.84	AAAAA	C
ATOM	582	CZ	PHE	58	35.877	10.521	45.037	1.00	46.50	AAAAA	C
ATOM	583	C	PHE	58	37.351	7.052	48.379	1.00	49.71	AAAAA	C
ATOM	584	O	PHE	58	38.487	7.073	47.934	1.00	52.16	AAAAA	O
ATOM	585	N	ARG	59	36.471	6.118	47.944	1.00	44.26	AAAAA	N
ATOM	587	CA	ARG	59	36.753	5.281	46.815	1.00	40.80	AAAAA	C
ATOM	588	CB	ARG	59	36.911	5.993	45.427	1.00	23.79	AAAAA	C
ATOM	589	CG	ARG	59	35.869	7.020	45.121	1.00	46.53	AAAAA	C
ATOM	590	CD	ARG	59	35.921	7.562	43.706	1.00	37.64	AAAAA	C
ATOM	591	NE	ARG	59	35.822	6.422	42.806	1.00	49.23	AAAAA	N
ATOM	593	CZ	ARG	59	34.950	5.832	42.036	1.00	41.36	AAAAA	C
ATOM	594	NH1	ARG	59	33.702	6.277	41.931	1.00	47.00	AAAAA	N
ATOM	597	NH2	ARG	59	35.237	4.729	41.327	1.00	42.58	AAAAA	N
ATOM	600	C	ARG	59	38.037	4.494	47.049	1.00	42.25	AAAAA	C
ATOM	601	O	ARG	59	38.981	4.513	46.232	1.00	44.11	AAAAA	O
ATOM	602	N	VAL	60	38.001	3.625	48.023	1.00	40.84	AAAAA	N
ATOM	604	CA	VAL	60	39.101	2.743	48.341	1.00	39.14	AAAAA	C
ATOM	605	CB	VAL	60	39.624	3.066	49.751	1.00	40.12	AAAAA	C
ATOM	606	CG1	VAL	60	40.407	1.872	50.296	1.00	35.05	AAAAA	C
ATOM	607	CG2	VAL	60	40.425	4.352	49.893	1.00	28.86	AAAAA	C
ATOM	608	C	VAL	60	38.539	1.337	48.368	1.00	43.56	AAAAA	C
ATOM	609	O	VAL	60	37.535	1.224	49.072	1.00	47.66	AAAAA	O
ATOM	610	N	ALA	61	39.094	0.371	47.659	1.00	41.92	AAAAA	N
ATOM	612	CA	ALA	61	38.617	-0.992	47.749	1.00	42.05	AAAAA	C
ATOM	613	CB	ALA	61	38.302	-1.483	46.364	1.00	52.40	AAAAA	C
ATOM	614	C	ALA	61	39.613	-1.934	48.386	1.00	43.08	AAAAA	C
ATOM	615	O	ALA	61	40.757	-1.602	48.670	1.00	50.59	AAAAA	O
ATOM	616	N	GLY	62	39.200	-3.105	48.849	1.00	45.71	AAAAA	N
ATOM	618	CA	GLY	62	40.136	-4.079	49.385	1.00	45.39	AAAAA	C
ATOM	619	C	GLY	62	40.262	-3.902	50.872	1.00	48.04	AAAAA	C
ATOM	620	O	GLY	62	40.587	-4.835	51.604	1.00	52.34	AAAAA	O
ATOM	621	N	LEU	63	39.985	-2.734	51.383	1.00	46.90	AAAAA	N
ATOM	623	CA	LEU	63	40.003	-2.443	52.805	1.00	49.11	AAAAA	C
ATOM	624	CB	LEU	63	40.274	-0.953	53.027	1.00	41.41	AAAAA	C
ATOM	625	CG	LEU	63	40.265	-0.423	54.443	1.00	53.41	AAAAA	C
ATOM	626	CD1	LEU	63	41.172	-1.164	55.416	1.00	48.27	AAAAA	C
ATOM	627	CD2	LEU	63	40.637	1.047	54.246	1.00	50.51	AAAAA	C
ATOM	628	C	LEU	63	38.643	-2.881	53.323	1.00	54.20	AAAAA	C
ATOM	629	O	LEU	63	37.587	-2.430	52.837	1.00	57.73	AAAAA	O
ATOM	630	N	GLU	64	38.658	-3.862	54.190	1.00	53.97	AAAAA	N
ATOM	632	CA	GLU	64	37.462	-4.448	54.749	1.00	56.96	AAAAA	C
ATOM	633	CB	GLU	64	37.689	-5.956	54.734	1.00	65.33	AAAAA	C
ATOM	634	CG	GLU	64	37.832	-6.484	53.293	1.00	75.14	AAAAA	C
ATOM	635	CD	GLU	64	37.404	-7.940	53.128	1.00	78.10	AAAAA	C
ATOM	636	OE1	GLU	64	37.424	-8.698	54.132	1.00	63.93	AAAAA	O
ATOM	637	OE2	GLU	64	37.036	-8.320	51.978	1.00	88.77	AAAAA	O
ATOM	638	C	GLU	64	37.096	-4.007	56.163	1.00	57.12	AAAAA	C
ATOM	639	O	GLU	64	35.986	-4.332	56.600	1.00	59.82	AAAAA	O
ATOM	640	N	SER	65	37.766	-3.042	56.761	1.00	50.64	AAAAA	N
ATOM	642	CA	SER	65	37.539	-2.523	58.060	1.00	47.19	AAAAA	C
ATOM	643	CB	SER	65	37.743	-3.596	59.139	1.00	49.24	AAAAA	C
ATOM	644	OG	SER	65	37.501	-2.971	60.429	1.00	50.90	AAAAA	O
ATOM	646	C	SER	65	38.516	-1.405	58.432	1.00	48.35	AAAAA	C
ATOM	647	O	SER	65	39.716	-1.692	58.374	1.00	52.75	AAAAA	O
ATOM	648	N	LEU	66	38.054	-0.289	58.984	1.00	41.03	AAAAA	N
ATOM	650	CA	LEU	66	38.956	0.758	59.405	1.00	41.94	AAAAA	C
ATOM	651	CB	LEU	66	38.247	2.083	59.498	1.00	25.25	AAAAA	C
ATOM	652	CG	LEU	66	37.283	2.476	58.402	1.00	34.49	AAAAA	C
ATOM	653	CD1	LEU	66	36.974	3.951	58.512	1.00	30.81	AAAAA	C
ATOM	654	CD2	LEU	66	37.767	2.200	56.994	1.00	34.34	AAAAA	C
ATOM	655	C	LEU	66	39.646	0.462	60.734	1.00	45.39	AAAAA	C
ATOM	656	O	LEU	66	40.762	0.947	60.927	1.00	41.05	AAAAA	O
ATOM	657	N	GLY	67	39.000	-0.346	61.583	1.00	45.21	AAAAA	N
ATOM	659	CA	GLY	67	39.773	-0.672	62.799	1.00	48.14	AAAAA	C
ATOM	660	C	GLY	67	40.998	-1.508	62.445	1.00	44.51	AAAAA	C
ATOM	661	O	GLY	67	41.855	-1.724	63.287	1.00	45.42	AAAAA	O
ATOM	662	N	ASP	68	41.013	-2.189	61.309	1.00	47.60	AAAAA	N
ATOM	664	CA	ASP	68	42.194						

ATOM	669	C	ASP	68	43.363	-1.837	60.596	1.00	45.89	AAAA	C
ATOM	670	O	ASP	68	44.436	-2.269	60.903	1.00	44.84	AAAA	O
ATOM	671	N	LEU	69	43.145	-0.609	60.247	1.00	42.49	AAAA	N
ATOM	673	CA	LEU	69	44.175	0.352	60.048	1.00	45.80	AAAA	C
ATOM	674	CB	LEU	69	43.920	1.393	58.945	1.00	45.25	AAAA	C
ATOM	675	CG	LEU	69	43.902	0.882	57.494	1.00	54.25	AAAA	C
ATOM	676	CD1	LEU	69	43.541	2.037	56.565	1.00	47.26	AAAA	C
ATOM	677	CD2	LEU	69	45.211	0.200	57.113	1.00	50.76	AAAA	C
ATOM	678	C	LEU	69	44.347	1.107	61.350	1.00	49.50	AAAA	C
ATOM	679	O	LEU	69	45.470	1.210	61.851	1.00	54.51	AAAA	O
ATOM	680	N	PHE	70	43.296	1.737	61.869	1.00	44.60	AAAA	N
ATOM	682	CA	PHE	70	43.423	2.564	63.046	1.00	39.67	AAAA	C
ATOM	683	CB	PHE	70	42.987	3.973	62.700	1.00	26.08	AAAA	C
ATOM	684	CG	PHE	70	43.465	4.501	61.390	1.00	45.32	AAAA	C
ATOM	685	CD1	PHE	70	42.532	4.748	60.384	1.00	47.41	AAAA	C
ATOM	686	CD2	PHE	70	44.815	4.767	61.130	1.00	48.77	AAAA	C
ATOM	687	CE1	PHE	70	42.945	5.263	59.159	1.00	56.16	AAAA	C
ATOM	688	CE2	PHE	70	45.229	5.256	59.895	1.00	47.24	AAAA	C
ATOM	689	CZ	PHE	70	44.293	5.506	58.896	1.00	49.54	AAAA	C
ATOM	690	C	PHE	70	42.655	1.999	64.219	1.00	40.09	AAAA	C
ATOM	691	O	PHE	70	41.874	2.734	64.838	1.00	35.74	AAAA	O
ATOM	692	N	PRO	71	43.053	0.852	64.768	1.00	39.19	AAAA	N
ATOM	693	CD	PRO	71	44.269	0.058	64.411	1.00	39.94	AAAA	C
ATOM	694	CA	PRO	71	42.444	0.237	65.899	1.00	35.30	AAAA	C
ATOM	695	CB	PRO	71	43.308	-0.983	66.246	1.00	38.03	AAAA	C
ATOM	696	CG	PRO	71	44.669	-0.564	65.717	1.00	38.36	AAAA	C
ATOM	697	C	PRO	71	42.453	1.089	67.126	1.00	33.72	AAAA	C
ATOM	698	O	PRO	71	42.005	0.630	68.159	1.00	39.32	AAAA	O
ATOM	699	N	ASN	72	43.058	2.220	67.231	1.00	36.55	AAAA	N
ATOM	701	CA	ASN	72	43.204	3.032	68.401	1.00	32.60	AAAA	C
ATOM	702	CB	ASN	72	44.637	2.916	68.962	1.00	36.89	AAAA	C
ATOM	703	CG	ASN	72	44.735	1.638	69.761	1.00	47.03	AAAA	C
ATOM	704	OD1	ASN	72	44.644	1.619	70.979	1.00	64.42	AAAA	O
ATOM	705	ND2	ASN	72	44.880	0.475	69.169	1.00	63.17	AAAA	N
ATOM	708	C	ASN	72	42.875	4.477	68.135	1.00	30.11	AAAA	C
ATOM	709	O	ASN	72	43.099	5.201	69.104	1.00	36.53	AAAA	O
ATOM	710	N	LEU	73	42.309	4.809	66.978	1.00	27.62	AAAA	N
ATOM	712	CA	LEU	73	41.940	6.207	66.730	1.00	34.07	AAAA	C
ATOM	713	CB	LEU	73	41.476	6.373	65.292	1.00	28.37	AAAA	C
ATOM	714	CG	LEU	73	40.819	7.713	64.882	1.00	29.33	AAAA	C
ATOM	715	CD1	LEU	73	41.918	8.721	64.963	1.00	31.86	AAAA	C
ATOM	716	CD2	LEU	73	40.202	7.518	63.478	1.00	32.07	AAAA	C
ATOM	717	C	LEU	73	40.929	6.569	67.817	1.00	32.14	AAAA	C
ATOM	718	O	LEU	73	40.073	5.737	68.081	1.00	35.02	AAAA	O
ATOM	719	N	THR	74	41.081	7.585	68.582	1.00	29.47	AAAA	N
ATOM	721	CA	THR	74	40.150	7.826	69.683	1.00	34.80	AAAA	C
ATOM	722	CB	THR	74	41.028	7.744	70.952	1.00	46.09	AAAA	C
ATOM	723	OG1	THR	74	41.729	6.485	70.880	1.00	46.30	AAAA	O
ATOM	725	CG2	THR	74	40.262	7.831	72.253	1.00	39.45	AAAA	C
ATOM	726	C	THR	74	39.424	9.155	69.602	1.00	35.48	AAAA	C
ATOM	727	O	THR	74	38.270	9.322	70.077	1.00	35.32	AAAA	O
ATOM	728	N	VAL	75	40.047	10.198	69.073	1.00	29.80	AAAA	N
ATOM	730	CA	VAL	75	39.351	11.474	68.892	1.00	34.91	AAAA	C
ATOM	731	CB	VAL	75	39.856	12.445	69.955	1.00	26.03	AAAA	C
ATOM	732	CG1	VAL	75	39.173	13.801	69.934	1.00	24.51	AAAA	C
ATOM	733	CG2	VAL	75	39.675	11.910	71.366	1.00	19.87	AAAA	C
ATOM	734	C	VAL	75	39.613	12.045	67.494	1.00	37.57	AAAA	C
ATOM	735	O	VAL	75	40.724	11.808	67.022	1.00	35.99	AAAA	O
ATOM	736	N	ILE	76	38.600	12.555	66.796	1.00	35.91	AAAA	N
ATOM	738	CA	ILE	76	38.696	13.340	65.592	1.00	31.48	AAAA	C
ATOM	739	CB	ILE	76	37.831	12.769	64.492	1.00	29.60	AAAA	C
ATOM	740	CG2	ILE	76	37.856	13.630	63.208	1.00	19.54	AAAA	C
ATOM	741	CG1	ILE	76	38.222	11.314	64.277	1.00	28.52	AAAA	C
ATOM	742	CD1	ILE	76	37.149	10.556	63.478	1.00	28.85	AAAA	C
ATOM	743	C	ILE	76	38.157	14.718	66.000	1.00	33.84	AAAA	C
ATOM	744	O	ILE	76	36.987	14.777	66.274	1.00	38.84	AAAA	O
ATOM	745	N	ARG	77	38.906	15.733	66.230	1.00	30.32	AAAA	N
ATOM	747	CA	ARG	77	38.605	16.901	67.021	1.00	30.82	AAAA	C
ATOM	748	CB	ARG	77	39.961	17.475	67.461	1.00	26.62	AAAA	C
ATOM	749	CG	ARG	77	39.993	18.836	68.058	1.00	52.42	AAAA	C
ATOM	750	CD	ARG	77	41.290	18.957	68.908	1.00	49.10	AAAA	C
ATOM	751	NE	ARG	77	41.411	17.817	69.773	1.00	39.23	AAAA	N
ATOM	753	CZ	ARG	77	40.977	18.016	71.064	1.00	48.79	AAAA	C
ATOM	754	NH1	ARG	77	40.440	19.104	71.610	1.00	30.34	AAAA	N
ATOM	757	NH2	ARG	77	41.061	17.012	71.941	1.00	40.38	AAAA	N
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ATOM	765	C	GLY	78	37.199	19.880	64.063	1.00	31.58	AAAAA	C
ATOM	766	O	GLY	78	36.363	20.775	63.674	1.00	34.03	AAAAA	O
ATOM	767	N	TRP	79	38.439	20.321	64.304	1.00	31.21	AAAAA	N
ATOM	769	CA	TRP	79	38.757	21.740	64.337	1.00	30.80	AAAAA	C
ATOM	770	CB	TRP	79	40.177	21.943	64.845	1.00	39.07	AAAAA	C
ATOM	771	CG	TRP	79	40.626	23.343	65.164	1.00	36.64	AAAAA	C
ATOM	772	CD2	TRP	79	41.691	24.001	64.433	1.00	28.52	AAAAA	C
ATOM	773	CE2	TRP	79	41.826	25.288	65.002	1.00	36.49	AAAAA	C
ATOM	774	CE3	TRP	79	42.473	23.625	63.370	1.00	37.96	AAAAA	C
ATOM	775	CD1	TRP	79	40.199	24.235	66.113	1.00	29.59	AAAAA	C
ATOM	776	NE1	TRP	79	40.917	25.413	66.054	1.00	27.67	AAAAA	N
ATOM	778	CZ2	TRP	79	42.770	26.213	64.543	1.00	31.83	AAAAA	C
ATOM	779	CZ3	TRP	79	43.389	24.548	62.876	1.00	46.14	AAAAA	C
ATOM	780	CH2	TRP	79	43.525	25.794	63.470	1.00	35.31	AAAAA	C
ATOM	781	C	TRP	79	38.606	22.418	62.986	1.00	28.75	AAAAA	C
ATOM	782	O	TRP	79	38.585	23.624	62.961	1.00	23.61	AAAAA	O
ATOM	783	N	LYS	80	38.659	21.684	61.895	1.00	31.84	AAAAA	N
ATOM	785	CA	LYS	80	38.305	22.153	60.573	1.00	32.78	AAAAA	C
ATOM	786	CB	LYS	80	39.453	22.498	59.689	1.00	41.17	AAAAA	C
ATOM	787	CG	LYS	80	39.838	23.911	59.470	1.00	34.68	AAAAA	C
ATOM	788	CD	LYS	80	41.025	24.350	60.306	1.00	44.77	AAAAA	C
ATOM	789	CE	LYS	80	41.276	25.811	59.898	1.00	50.41	AAAAA	C
ATOM	790	NZ	LYS	80	42.530	25.752	59.092	1.00	67.26	AAAAA	N
ATOM	791	C	LYS	80	37.585	20.960	59.917	1.00	34.52	AAAAA	C
ATOM	792	O	LYS	80	37.950	19.843	60.237	1.00	37.62	AAAAA	O
ATOM	793	N	LEU	81	36.477	21.267	59.207	1.00	31.77	AAAAA	N
ATOM	795	CA	LEU	81	35.742	20.157	58.600	1.00	31.02	AAAAA	C
ATOM	796	CB	LEU	81	34.290	20.315	59.092	1.00	31.20	AAAAA	C
ATOM	797	CG	LEU	81	34.115	20.319	60.632	1.00	36.97	AAAAA	C
ATOM	798	CD1	LEU	81	32.832	21.080	60.954	1.00	27.98	AAAAA	C
ATOM	799	CD2	LEU	81	34.089	18.955	61.297	1.00	28.77	AAAAA	C
ATOM	800	C	LEU	81	35.733	20.023	57.104	1.00	29.86	AAAAA	C
ATOM	801	O	LEU	81	36.082	20.947	56.368	1.00	29.34	AAAAA	O
ATOM	802	N	PHE	82	35.430	18.813	56.594	1.00	27.78	AAAAA	N
ATOM	804	CA	PHE	82	35.176	18.653	55.182	1.00	28.68	AAAAA	C
ATOM	805	CB	PHE	82	35.513	17.226	54.795	1.00	32.78	AAAAA	C
ATOM	806	CG	PHE	82	35.348	16.901	53.357	1.00	30.48	AAAAA	C
ATOM	807	CD1	PHE	82	36.378	17.130	52.447	1.00	32.86	AAAAA	C
ATOM	808	CD2	PHE	82	34.142	16.361	52.914	1.00	30.93	AAAAA	C
ATOM	809	CE1	PHE	82	36.217	16.769	51.104	1.00	43.27	AAAAA	C
ATOM	810	CE2	PHE	82	33.963	16.061	51.538	1.00	26.30	AAAAA	C
ATOM	811	CZ	PHE	82	35.005	16.238	50.672	1.00	37.73	AAAAA	C
ATOM	812	C	PHE	82	33.670	18.911	54.993	1.00	30.06	AAAAA	C
ATOM	813	O	PHE	82	32.830	18.045	55.278	1.00	27.36	AAAAA	O
ATOM	814	N	TYR	83	33.301	20.148	54.770	1.00	31.68	AAAAA	N
ATOM	815	CA	TYR	83	31.911	20.605	54.633	1.00	40.76	AAAAA	C
ATOM	816	C	TYR	83	31.043	19.977	55.726	1.00	44.00	AAAAA	C
ATOM	817	O	TYR	83	30.075	19.210	55.487	1.00	50.47	AAAAA	O
ATOM	818	CB	TYR	83	31.359	20.199	53.269	1.00	31.55	AAAAA	C
ATOM	819	CG	TYR	83	32.196	20.742	52.117	0.01	20.00	AAAAA	C
ATOM	820	CD1	TYR	83	33.254	19.982	51.609	0.01	20.00	AAAAA	C
ATOM	821	CD2	TYR	83	31.906	21.998	51.575	0.01	20.00	AAAAA	C
ATOM	822	CE1	TYR	83	34.027	20.480	50.556	0.01	20.00	AAAAA	C
ATOM	823	CE2	TYR	83	32.679	22.496	50.521	0.01	20.00	AAAAA	C
ATOM	824	CZ	TYR	83	33.740	21.737	50.012	0.01	20.00	AAAAA	C
ATOM	825	OH	TYR	83	34.492	22.222	48.989	0.01	20.00	AAAAA	O
ATOM	826	N	ASN	84	31.043	20.461	56.924	1.00	40.91	AAAAA	N
ATOM	827	CA	ASN	84	30.250	20.057	58.056	1.00	36.54	AAAAA	C
ATOM	828	CB	ASN	84	28.763	20.046	57.700	1.00	47.84	AAAAA	C
ATOM	829	CG	ASN	84	28.274	21.164	56.797	1.00	60.75	AAAAA	C
ATOM	830	OD1	ASN	84	28.319	22.343	57.119	1.00	45.55	AAAAA	O
ATOM	831	ND2	ASN	84	27.839	20.876	55.552	1.00	65.98	AAAAA	N
ATOM	832	C	ASN	84	30.686	18.679	58.556	1.00	36.33	AAAAA	C
ATOM	833	O	ASN	84	30.137	18.206	59.580	1.00	38.24	AAAAA	O
ATOM	834	N	TYR	85	31.455	17.900	57.800	1.00	32.78	AAAAA	N
ATOM	836	CA	TYR	85	31.617	16.504	58.222	1.00	35.45	AAAAA	C
ATOM	837	CB	TYR	85	31.473	15.579	57.000	1.00	35.54	AAAAA	C
ATOM	838	CG	TYR	85	30.078	15.733	56.453	1.00	41.35	AAAAA	C
ATOM	839	CD1	TYR	85	29.868	16.291	55.199	1.00	38.22	AAAAA	C
ATOM	840	CE1	TYR	85	28.611	16.445	54.704	1.00	40.83	AAAAA	C
ATOM	841	CD2	TYR	85	28.954	15.371	57.200	1.00	47.42	AAAAA	C
ATOM	842	CE2	TYR	85	27.661	15.533	56.705	1.00	45.91	AAAAA	C
ATOM	843	CZ	TYR	85	27.497	16.072	55.445	1.00	46.06	AAAAA	C
ATOM	844	OH	TYR								

ATOM	852	C	ALA	86	34.729	13.962	60.216	1.00	32.67	AAAAA C
ATOM	853	O	ALA	86	35.795	13.481	60.577	1.00	35.10	AAAAA O
ATOM	854	N	LEU	87	33.832	13.173	59.597	1.00	28.56	AAAAA N
ATOM	856	CA	LEU	87	34.188	11.805	59.323	1.00	29.26	AAAAA C
ATOM	857	CB	LEU	87	33.798	10.860	60.471	1.00	13.64	AAAAA C
ATOM	858	CG	LEU	87	33.801	9.363	60.188	1.00	25.77	AAAAA C
ATOM	859	CD1	LEU	87	35.140	8.915	59.571	1.00	27.21	AAAAA C
ATOM	860	CD2	LEU	87	33.637	8.432	61.393	1.00	23.52	AAAAA C
ATOM	861	C	LEU	87	33.530	11.429	58.021	1.00	35.60	AAAAA C
ATOM	862	O	LEU	87	32.320	11.421	58.001	1.00	38.97	AAAAA O
ATOM	863	N	VAL	88	34.174	11.300	56.875	1.00	37.86	AAAAA N
ATOM	865	CA	VAL	88	33.438	11.032	55.628	1.00	33.32	AAAAA C
ATOM	866	CB	VAL	88	33.666	12.085	54.553	1.00	22.38	AAAAA C
ATOM	867	CG1	VAL	88	32.974	11.675	53.261	1.00	19.24	AAAAA C
ATOM	868	CG2	VAL	88	33.165	13.402	55.042	1.00	13.27	AAAAA C
ATOM	869	C	VAL	88	33.898	9.684	55.114	1.00	31.79	AAAAA C
ATOM	870	O	VAL	88	35.069	9.407	55.117	1.00	33.57	AAAAA O
ATOM	871	N	ILE	89	33.078	8.728	54.822	1.00	31.08	AAAAA N
ATOM	873	CA	ILE	89	33.361	7.433	54.280	1.00	30.45	AAAAA C
ATOM	874	CB	ILE	89	32.941	6.384	55.296	1.00	30.17	AAAAA C
ATOM	875	CG2	ILE	89	32.898	4.954	54.821	1.00	37.24	AAAAA C
ATOM	876	CG1	ILE	89	33.893	6.420	56.500	1.00	24.92	AAAAA C
ATOM	877	CD1	ILE	89	33.424	5.613	57.675	1.00	23.96	AAAAA C
ATOM	878	C	ILE	89	32.509	7.206	53.027	1.00	40.64	AAAAA C
ATOM	879	O	ILE	89	31.330	6.881	53.205	1.00	38.69	AAAAA O
ATOM	880	N	PHE	90	33.082	7.464	51.845	1.00	41.45	AAAAA N
ATOM	882	CA	PHE	90	32.346	7.371	50.591	1.00	37.67	AAAAA C
ATOM	883	CB	PHE	90	32.347	8.776	50.110	1.00	32.17	AAAAA C
ATOM	884	CG	PHE	90	31.581	9.081	48.865	1.00	39.77	AAAAA C
ATOM	885	CD1	PHE	90	30.387	9.772	49.025	1.00	32.02	AAAAA C
ATOM	886	CD2	PHE	90	32.052	8.721	47.620	1.00	29.28	AAAAA C
ATOM	887	CE1	PHE	90	29.611	10.111	47.938	1.00	33.30	AAAAA C
ATOM	888	CE2	PHE	90	31.290	9.086	46.534	1.00	43.09	AAAAA C
ATOM	889	CZ	PHE	90	30.083	9.764	46.687	1.00	50.24	AAAAA C
ATOM	890	C	PHE	90	32.856	6.384	49.557	1.00	40.72	AAAAA C
ATOM	891	O	PHE	90	34.027	6.296	49.203	1.00	46.15	AAAAA O
ATOM	892	N	GLU	91	32.024	5.519	49.001	1.00	39.16	AAAAA N
ATOM	894	CA	GLU	91	32.248	4.601	47.954	1.00	42.45	AAAAA C
ATOM	895	CB	GLU	91	32.479	5.231	46.583	1.00	38.08	AAAAA C
ATOM	896	CG	GLU	91	31.136	5.865	46.250	1.00	58.86	AAAAA C
ATOM	897	CD	GLU	91	30.855	5.776	44.757	1.00	63.55	AAAAA C
ATOM	898	OE1	GLU	91	31.473	6.651	44.082	1.00	64.10	AAAAA O
ATOM	899	OE2	GLU	91	30.058	4.813	44.573	1.00	63.64	AAAAA O
ATOM	900	C	GLU	91	33.422	3.734	48.313	1.00	42.06	AAAAA C
ATOM	901	O	GLU	91	34.298	3.411	47.587	1.00	44.71	AAAAA O
ATOM	902	N	MET	92	33.352	3.209	49.482	1.00	46.52	AAAAA N
ATOM	904	CA	MET	92	34.409	2.401	50.088	1.00	42.26	AAAAA C
ATOM	905	CB	MET	92	34.299	2.659	51.584	1.00	38.37	AAAAA C
ATOM	906	CG	MET	92	35.412	2.156	52.420	1.00	59.29	AAAAA C
ATOM	907	SD	MET	92	36.802	3.306	52.401	1.00	57.67	AAAAA S
ATOM	908	CE	MET	92	36.340	4.405	51.108	1.00	38.36	AAAAA C
ATOM	909	C	MET	92	34.012	1.005	49.745	1.00	43.37	AAAAA C
ATOM	910	O	MET	92	33.335	0.298	50.523	1.00	45.58	AAAAA O
ATOM	911	N	THR	93	34.449	0.518	48.602	1.00	47.09	AAAAA N
ATOM	913	CA	THR	93	34.175	-0.900	48.273	1.00	47.32	AAAAA C
ATOM	914	CB	THR	93	34.666	-1.281	46.868	1.00	55.28	AAAAA C
ATOM	915	OG1	THR	93	34.013	-0.488	45.892	1.00	57.81	AAAAA O
ATOM	917	CG2	THR	93	34.332	-2.715	46.516	1.00	44.71	AAAAA C
ATOM	918	C	THR	93	34.885	-1.874	49.186	1.00	51.83	AAAAA C
ATOM	919	O	THR	93	36.115	-1.777	49.361	1.00	57.91	AAAAA O
ATOM	920	N	ASN	94	34.237	-2.983	49.493	1.00	49.85	AAAAA N
ATOM	922	CA	ASN	94	34.747	-4.069	50.285	1.00	45.64	AAAAA C
ATOM	923	CB	ASN	94	36.241	-4.315	50.001	1.00	59.01	AAAAA C
ATOM	924	CG	ASN	94	36.494	-4.849	48.599	1.00	75.44	AAAAA C
ATOM	925	OD1	ASN	94	36.847	-4.081	47.688	1.00	77.49	AAAAA O
ATOM	926	ND2	ASN	94	36.308	-6.153	48.408	1.00	79.63	AAAAA N
ATOM	929	C	ASN	94	34.522	-3.838	51.763	1.00	42.58	AAAAA C
ATOM	930	O	ASN	94	34.752	-4.814	52.501	1.00	46.36	AAAAA O
ATOM	931	N	LEU	95	34.308	-2.609	52.182	1.00	37.28	AAAAA N
ATOM	933	CA	LEU	95	34.324	-2.277	53.621	1.00	39.96	AAAAA C
ATOM	934	CB	LEU	95	34.185	-0.786	53.851	1.00	34.05	AAAAA C
ATOM	935	CG	LEU	95	34.323	-0.296	55.269	1.00	35.81	AAAAA C
ATOM	936	CD1	LEU	95	35.785	-0.537	55.598	1.00	35.48	AAAAA C
ATOM	937	CD2	LEU	95	33.847	1.177	55.344	1.00	25.46	AAAAA C
ATOM	938	C	LEU	95	33.163	-2.986	54.275	1.00	43.75	AAAAA C
ATOM	939	O	LEU	95	32.048	-2.936	53.772	1.00	44.04	AAAAA O
ATOM	940	N	LYS	96	33.451	-3.863	55.213	1.00	46.50	AAAAA N
ATOM	942	CA	LYS	96	32.364</td					

ATOM	944	CG	LYS	96	32.760	-6.976	54.788	1.00	49.78	AAAA	C
ATOM	945	CD	LYS	96	32.984	-8.446	55.127	1.00	58.09	AAAA	C
ATOM	946	CE	LYS	96	33.772	-9.160	54.027	1.00	73.43	AAAA	C
ATOM	947	NZ	LYS	96	34.098	-10.556	54.489	1.00	79.13	AAAA	N
ATOM	951	C	LYS	96	31.970	-4.055	57.122	1.00	45.29	AAAA	C
ATOM	952	O	LYS	96	30.978	-4.502	57.691	1.00	46.23	AAAA	O
ATOM	953	N	ASP	97	32.685	-3.071	57.645	1.00	45.15	AAAA	N
ATOM	955	CA	ASP	97	32.299	-2.384	58.861	1.00	42.15	AAAA	C
ATOM	956	CB	ASP	97	32.294	-3.292	60.059	1.00	45.39	AAAA	C
ATOM	957	CG	ASP	97	33.662	-3.562	60.624	1.00	56.95	AAAA	C
ATOM	958	OD1	ASP	97	34.579	-2.825	61.012	1.00	59.88	AAAA	O
ATOM	959	OD2	ASP	97	33.931	-4.782	60.714	1.00	56.01	AAAA	O
ATOM	960	C	ASP	97	33.209	-1.224	59.201	1.00	41.25	AAAA	C
ATOM	961	O	ASP	97	34.160	-1.074	58.437	1.00	47.03	AAAA	O
ATOM	962	N	ILE	98	32.822	-0.366	60.129	1.00	40.41	AAAA	N
ATOM	964	CA	ILE	98	33.675	0.820	60.340	1.00	37.83	AAAA	C
ATOM	965	CB	ILE	98	32.983	2.006	61.006	1.00	38.99	AAAA	C
ATOM	966	CG2	ILE	98	34.007	3.133	61.207	1.00	38.95	AAAA	C
ATOM	967	CG1	ILE	98	31.835	2.488	60.092	1.00	34.84	AAAA	C
ATOM	968	CD1	ILE	98	31.629	3.958	59.948	1.00	39.29	AAAA	C
ATOM	969	C	ILE	98	34.854	0.322	61.114	1.00	35.11	AAAA	C
ATOM	970	O	ILE	98	35.970	0.669	60.841	1.00	43.05	AAAA	O
ATOM	971	N	GLY	99	34.618	-0.393	62.192	1.00	34.22	AAAA	N
ATOM	973	CA	GLY	99	35.477	-0.972	63.121	1.00	33.74	AAAA	C
ATOM	974	C	GLY	99	36.279	-0.084	64.024	1.00	35.90	AAAA	C
ATOM	975	O	GLY	99	37.023	-0.572	64.899	1.00	38.21	AAAA	O
ATOM	976	N	LEU	100	36.190	1.221	63.913	1.00	33.35	AAAA	N
ATOM	978	CA	LEU	100	36.763	2.215	64.771	1.00	31.65	AAAA	C
ATOM	979	CB	LEU	100	36.496	3.636	64.294	1.00	29.87	AAAA	C
ATOM	980	CG	LEU	100	36.943	3.980	62.835	1.00	32.13	AAAA	C
ATOM	981	CD1	LEU	100	36.710	5.479	62.610	1.00	21.38	AAAA	C
ATOM	982	CD2	LEU	100	38.412	3.599	62.644	1.00	37.68	AAAA	C
ATOM	983	C	LEU	100	36.312	1.976	66.194	1.00	31.94	AAAA	C
ATOM	984	O	LEU	100	35.950	2.863	66.979	1.00	31.95	AAAA	O
ATOM	985	N	TYR	101	36.704	0.851	66.779	1.00	31.87	AAAA	N
ATOM	987	CA	TYR	101	36.329	0.395	68.071	1.00	33.33	AAAA	C
ATOM	988	CB	TYR	101	36.491	-1.104	68.264	1.00	41.03	AAAA	C
ATOM	989	CG	TYR	101	37.919	-1.559	68.369	1.00	46.66	AAAA	C
ATOM	990	CD1	TYR	101	38.571	-1.380	69.587	1.00	51.20	AAAA	C
ATOM	991	CE1	TYR	101	39.901	-1.743	69.749	1.00	49.44	AAAA	C
ATOM	992	CD2	TYR	101	38.615	-2.112	67.322	1.00	45.15	AAAA	C
ATOM	993	CE2	TYR	101	39.927	-2.505	67.479	1.00	47.08	AAAA	C
ATOM	994	CZ	TYR	101	40.548	-2.321	68.688	1.00	49.43	AAAA	C
ATOM	995	OH	TYR	101	41.834	-2.662	68.997	1.00	55.82	AAAA	O
ATOM	997	C	TYR	101	36.989	1.059	69.214	1.00	33.46	AAAA	C
ATOM	998	O	TYR	101	36.630	0.813	70.375	1.00	43.00	AAAA	O
ATOM	999	N	ASN	102	37.752	2.091	69.068	1.00	38.12	AAAA	N
ATOM	1001	CA	ASN	102	38.093	2.979	70.223	1.00	30.78	AAAA	C
ATOM	1002	CB	ASN	102	39.603	2.911	70.363	1.00	48.63	AAAA	C
ATOM	1003	CG	ASN	102	40.112	1.804	71.268	1.00	54.01	AAAA	C
ATOM	1004	OD1	ASN	102	39.738	1.864	72.454	1.00	47.22	AAAA	O
ATOM	1005	ND2	ASN	102	40.864	0.845	70.767	1.00	43.08	AAAA	N
ATOM	1008	C	ASN	102	37.673	4.385	69.947	1.00	33.82	AAAA	C
ATOM	1009	O	ASN	102	38.047	5.364	70.592	1.00	39.84	AAAA	O
ATOM	1010	N	LEU	103	36.845	4.640	68.882	1.00	35.28	AAAA	N
ATOM	1012	CA	LEU	103	36.473	6.040	68.621	1.00	36.57	AAAA	C
ATOM	1013	CB	LEU	103	35.948	6.140	67.213	1.00	34.77	AAAA	C
ATOM	1014	CG	LEU	103	35.525	7.482	66.612	1.00	30.32	AAAA	C
ATOM	1015	CD1	LEU	103	36.606	8.513	66.646	1.00	23.20	AAAA	C
ATOM	1016	CD2	LEU	103	35.198	7.169	65.146	1.00	37.10	AAAA	C
ATOM	1017	C	LEU	103	35.484	6.508	69.691	1.00	37.31	AAAA	C
ATOM	1018	O	LEU	103	34.449	5.874	69.837	1.00	34.24	AAAA	O
ATOM	1019	N	ARG	104	35.810	7.456	70.563	1.00	33.31	AAAA	N
ATOM	1021	CA	ARG	104	34.920	7.841	71.605	1.00	29.86	AAAA	C
ATOM	1022	CB	ARG	104	35.568	7.657	73.018	1.00	38.17	AAAA	C
ATOM	1023	CG	ARG	104	36.356	6.375	73.165	1.00	48.37	AAAA	C
ATOM	1024	CD	ARG	104	35.425	5.183	73.248	1.00	50.71	AAAA	C
ATOM	1025	NE	ARG	104	34.582	5.320	74.413	1.00	52.38	AAAA	N
ATOM	1027	CZ	ARG	104	34.900	4.847	75.621	1.00	72.73	AAAA	C
ATOM	1028	NH1	ARG	104	36.047	4.214	75.800	1.00	81.87	AAAA	N
ATOM	1031	NH2	ARG	104	33.990	5.070	76.577	1.00	78.27	AAAA	N
ATOM	1034	C	ARG	104	34.466	9.273	71.540	1.00	32.58	AAAA	C
ATOM	1035	O	ARG	104	33.553	9.743	72.223	1.00	39.89	AAAA	O
ATOM	1036	N	ASN	105	34.992	10.065	70.637	1.00	33.47	AAAA	N
ATOM	1038	CA	ASN								

ATOM	1040	CG	ASN	105	34.786	13.568	71.756	1.00	24.93	AAAA	C
ATOM	1041	OD1	ASN	105	35.125	14.549	71.127	1.00	38.14	AAAA	O
ATOM	1042	ND2	ASN	105	33.828	13.985	72.649	1.00	35.96	AAAA	N
ATOM	1046	N	ILE	106	33.969	12.669	68.576	1.00	31.90	AAAA	N
ATOM	1048	CA	ILE	106	34.129	13.551	67.469	1.00	23.39	AAAA	C
ATOM	1049	CB	ILE	106	33.239	13.185	66.307	1.00	16.54	AAAA	C
ATOM	1050	CG2	ILE	106	33.132	14.408	65.374	1.00	20.38	AAAA	C
ATOM	1051	CG1	ILE	106	33.928	12.034	65.558	1.00	18.30	AAAA	C
ATOM	1052	CD1	ILE	106	33.055	11.293	64.643	1.00	25.48	AAAA	C
ATOM	1053	C	ILE	106	33.803	14.909	68.009	1.00	27.40	AAAA	C
ATOM	1054	O	ILE	106	32.628	15.106	68.243	1.00	32.86	AAAA	O
ATOM	1055	N	THR	107	34.719	15.789	68.350	1.00	30.43	AAAA	N
ATOM	1057	CA	THR	107	34.532	16.983	69.145	1.00	28.27	AAAA	C
ATOM	1058	CB	THR	107	35.902	17.607	69.579	1.00	35.78	AAAA	C
ATOM	1059	OG1	THR	107	36.819	16.503	69.738	1.00	40.26	AAAA	O
ATOM	1061	CG2	THR	107	35.954	18.411	70.855	1.00	28.13	AAAA	C
ATOM	1062	C	THR	107	33.728	17.950	68.332	1.00	27.95	AAAA	C
ATOM	1063	O	THR	107	33.392	19.060	68.831	1.00	32.99	AAAA	O
ATOM	1064	N	ARG	108	33.669	17.777	67.019	1.00	30.28	AAAA	N
ATOM	1066	CA	ARG	108	33.046	18.809	66.180	1.00	31.25	AAAA	C
ATOM	1067	CB	ARG	108	33.965	20.011	65.951	1.00	25.13	AAAA	C
ATOM	1068	CG	ARG	108	33.105	21.174	65.543	1.00	30.68	AAAA	C
ATOM	1069	CD	ARG	108	33.917	22.444	65.529	1.00	17.12	AAAA	C
ATOM	1070	NE	ARG	108	33.511	23.376	64.451	1.00	33.40	AAAA	N
ATOM	1072	CZ	ARG	108	34.045	23.608	63.266	1.00	46.41	AAAA	C
ATOM	1073	NH1	ARG	108	35.162	22.929	62.868	1.00	40.30	AAAA	N
ATOM	1076	NH2	ARG	108	33.454	24.543	62.494	1.00	39.82	AAAA	N
ATOM	1079	C	ARG	108	32.701	18.328	64.784	1.00	31.50	AAAA	C
ATOM	1080	O	ARG	108	33.379	17.381	64.430	1.00	32.67	AAAA	O
ATOM	1081	N	GLY	109	31.567	18.809	64.284	1.00	32.60	AAAA	N
ATOM	1083	CA	GLY	109	31.082	18.385	62.983	1.00	28.87	AAAA	C
ATOM	1084	C	GLY	109	30.470	17.008	63.001	1.00	32.32	AAAA	C
ATOM	1085	O	GLY	109	30.471	16.306	64.006	1.00	38.03	AAAA	O
ATOM	1086	N	ALA	110	29.920	16.560	61.894	1.00	34.11	AAAA	N
ATOM	1088	CA	ALA	110	29.086	15.371	61.833	1.00	36.77	AAAA	C
ATOM	1089	CB	ALA	110	27.708	15.721	61.223	1.00	15.32	AAAA	C
ATOM	1090	C	ALA	110	29.745	14.335	60.957	1.00	32.12	AAAA	C
ATOM	1091	O	ALA	110	30.921	14.332	60.687	1.00	34.11	AAAA	O
ATOM	1092	N	ILE	111	29.030	13.337	60.557	1.00	26.55	AAAA	N
ATOM	1094	CA	ILE	111	29.569	12.273	59.771	1.00	32.90	AAAA	C
ATOM	1095	CB	ILE	111	29.669	10.967	60.591	1.00	38.07	AAAA	C
ATOM	1096	CG2	ILE	111	30.091	11.140	62.036	1.00	34.05	AAAA	C
ATOM	1097	CG1	ILE	111	28.345	10.237	60.684	1.00	26.54	AAAA	C
ATOM	1098	CD1	ILE	111	28.437	8.872	61.407	1.00	27.11	AAAA	C
ATOM	1099	C	ILE	111	28.738	11.928	58.521	1.00	33.98	AAAA	C
ATOM	1100	O	ILE	111	27.533	12.179	58.532	1.00	32.15	AAAA	O
ATOM	1101	N	ARG	112	29.432	11.423	57.501	1.00	30.54	AAAA	N
ATOM	1103	CA	ARG	112	28.773	11.107	56.247	1.00	27.48	AAAA	C
ATOM	1104	CB	ARG	112	29.186	12.085	55.169	1.00	26.35	AAAA	C
ATOM	1105	CG	ARG	112	28.548	11.653	53.816	1.00	25.83	AAAA	C
ATOM	1106	CD	ARG	112	28.659	12.912	52.992	1.00	32.92	AAAA	C
ATOM	1107	NE	ARG	112	27.950	12.726	51.770	1.00	50.34	AAAA	N
ATOM	1109	CZ	ARG	112	27.778	13.503	50.720	1.00	47.61	AAAA	C
ATOM	1110	NH1	ARG	112	28.334	14.695	50.696	1.00	44.92	AAAA	N
ATOM	1113	NH2	ARG	112	27.012	12.925	49.789	1.00	46.00	AAAA	N
ATOM	1116	C	ARG	112	29.200	9.738	55.791	1.00	29.74	AAAA	C
ATOM	1117	O	ARG	112	30.343	9.611	55.406	1.00	36.52	AAAA	O
ATOM	1118	N	ILE	113	28.326	8.754	55.886	1.00	33.99	AAAA	N
ATOM	1120	CA	ILE	113	28.612	7.376	55.555	1.00	36.26	AAAA	C
ATOM	1121	CB	ILE	113	28.457	6.461	56.760	1.00	33.27	AAAA	C
ATOM	1122	CG2	ILE	113	28.850	5.021	56.449	1.00	15.85	AAAA	C
ATOM	1123	CG1	ILE	113	29.374	7.012	57.874	1.00	31.92	AAAA	C
ATOM	1124	CD1	ILE	113	29.324	6.250	59.176	1.00	42.34	AAAA	C
ATOM	1125	C	ILE	113	27.729	6.959	54.398	1.00	39.26	AAAA	C
ATOM	1126	O	ILE	113	26.637	6.482	54.664	1.00	50.72	AAAA	O
ATOM	1127	N	GLU	114	28.175	7.199	53.190	1.00	35.86	AAAA	N
ATOM	1129	CA	GLU	114	27.491	7.103	51.935	1.00	38.76	AAAA	C
ATOM	1130	CB	GLU	114	27.471	8.443	51.216	1.00	25.58	AAAA	C
ATOM	1131	CG	GLU	114	26.567	8.402	49.969	1.00	27.97	AAAA	C
ATOM	1132	CD	GLU	114	26.349	9.840	49.578	1.00	36.85	AAAA	C
ATOM	1133	OE1	GLU	114	26.763	10.662	50.414	1.00	45.57	AAAA	O
ATOM	1134	OE2	GLU	114	25.787	10.106	48.488	1.00	35.53	AAAA	O
ATOM	1135	C	GLU	114	28.039	6.072	50.944	1.00	44.17	AAAA	C
ATOM	1136	O	GLU								

ATOM	1142	CD	LYS	115	26.537	6.355	45.982	1.00	24.74	AAAAA	C
ATOM	1143	CE	LYS	115	26.751	7.804	45.622	1.00	41.86	AAAAA	C
ATOM	1144	NZ	LYS	115	27.165	8.045	44.196	1.00	60.91	AAAAA	N
ATOM	1148	C	LYS	115	28.287	3.421	49.611	1.00	42.39	AAAAA	C
ATOM	1149	O	LYS	115	29.102	3.103	48.749	1.00	46.68	AAAAA	O
ATOM	1150	N	ASN	116	28.137	2.677	50.665	1.00	40.99	AAAAA	N
ATOM	1152	CA	ASN	116	29.022	1.570	50.976	1.00	37.33	AAAAA	C
ATOM	1153	CB	ASN	116	29.534	1.868	52.381	1.00	46.12	AAAAA	C
ATOM	1154	CG	ASN	116	30.372	3.153	52.345	1.00	48.92	AAAAA	C
ATOM	1155	OD1	ASN	116	31.337	3.016	51.583	1.00	38.59	AAAAA	O
ATOM	1156	ND2	ASN	116	29.927	4.174	53.056	1.00	37.35	AAAAA	N
ATOM	1159	C	ASN	116	28.275	0.277	50.974	1.00	42.52	AAAAA	C
ATOM	1160	O	ASN	116	28.067	-0.361	52.033	1.00	48.24	AAAAA	O
ATOM	1161	N	ALA	117	27.989	-0.188	49.772	1.00	40.94	AAAAA	N
ATOM	1163	CA	ALA	117	27.195	-1.376	49.542	1.00	43.35	AAAAA	C
ATOM	1164	CB	ALA	117	27.494	-1.884	48.156	1.00	47.63	AAAAA	C
ATOM	1165	C	ALA	117	27.294	-2.504	50.529	1.00	46.55	AAAAA	C
ATOM	1166	O	ALA	117	26.211	-2.998	50.890	1.00	51.24	AAAAA	O
ATOM	1167	N	ASP	118	28.484	-2.823	51.005	1.00	47.43	AAAAA	N
ATOM	1169	CA	ASP	118	28.559	-3.980	51.920	1.00	45.74	AAAAA	C
ATOM	1170	CB	ASP	118	29.659	-4.945	51.477	1.00	55.39	AAAAA	C
ATOM	1171	CG	ASP	118	29.684	-5.119	49.958	1.00	59.40	AAAAA	C
ATOM	1172	OD1	ASP	118	28.870	-5.976	49.608	1.00	64.40	AAAAA	O
ATOM	1173	OD2	ASP	118	30.448	-4.447	49.207	1.00	66.73	AAAAA	O
ATOM	1174	C	ASP	118	28.818	-3.586	53.353	1.00	37.29	AAAAA	C
ATOM	1175	O	ASP	118	29.127	-4.536	54.026	1.00	42.89	AAAAA	O
ATOM	1176	N	LEU	119	28.670	-2.327	53.685	1.00	36.46	AAAAA	N
ATOM	1178	CA	LEU	119	28.986	-1.885	55.047	1.00	40.58	AAAAA	C
ATOM	1179	CB	LEU	119	29.159	-0.389	55.145	1.00	34.31	AAAAA	C
ATOM	1180	CG	LEU	119	29.640	0.331	56.378	1.00	36.58	AAAAA	C
ATOM	1181	CD1	LEU	119	30.950	-0.101	56.948	1.00	35.77	AAAAA	C
ATOM	1182	CD2	LEU	119	29.791	1.830	56.104	1.00	29.68	AAAAA	C
ATOM	1183	C	LEU	119	27.937	-2.376	56.007	1.00	43.67	AAAAA	C
ATOM	1184	O	LEU	119	26.748	-2.248	55.743	1.00	45.32	AAAAA	O
ATOM	1185	N	CYS	120	28.361	-2.967	57.110	1.00	43.53	AAAAA	N
ATOM	1187	CA	CYS	120	27.378	-3.407	58.089	1.00	38.93	AAAAA	C
ATOM	1188	C	CYS	120	27.881	-2.921	59.426	1.00	41.91	AAAAA	C
ATOM	1189	O	CYS	120	28.660	-1.960	59.446	1.00	43.66	AAAAA	O
ATOM	1190	CB	CYS	120	27.285	-4.907	58.100	1.00	37.59	AAAAA	C
ATOM	1191	SG	CYS	120	26.568	-5.622	56.639	1.00	58.32	AAAAA	S
ATOM	1192	N	TYR	121	27.328	-3.456	60.509	1.00	38.05	AAAAA	N
ATOM	1194	CA	TYR	121	27.795	-3.010	61.827	1.00	38.68	AAAAA	C
ATOM	1195	CB	TYR	121	29.189	-3.572	62.130	1.00	34.61	AAAAA	C
ATOM	1196	CG	TYR	121	28.950	-5.032	62.519	1.00	36.52	AAAAA	C
ATOM	1197	CD1	TYR	121	29.087	-6.045	61.582	1.00	33.58	AAAAA	C
ATOM	1198	CE1	TYR	121	28.852	-7.350	61.980	1.00	41.21	AAAAA	C
ATOM	1199	CD2	TYR	121	28.560	-5.337	63.817	1.00	36.31	AAAAA	C
ATOM	1200	CE2	TYR	121	28.287	-6.630	64.201	1.00	39.48	AAAAA	C
ATOM	1201	CZ	TYR	121	28.432	-7.641	63.270	1.00	46.07	AAAAA	C
ATOM	1202	OH	TYR	121	28.161	-8.924	63.730	1.00	49.20	AAAAA	O
ATOM	1204	C	TYR	121	27.674	-1.523	61.789	1.00	38.83	AAAAA	C
ATOM	1205	O	TYR	121	28.445	-0.778	62.369	1.00	43.22	AAAAA	O
ATOM	1206	N	LEU	122	26.587	-1.045	61.180	1.00	39.58	AAAAA	N
ATOM	1208	CA	LEU	122	26.361	0.405	61.090	1.00	44.82	AAAAA	C
ATOM	1209	CB	LEU	122	25.990	0.715	59.634	1.00	46.48	AAAAA	C
ATOM	1210	CG	LEU	122	26.497	2.014	59.108	1.00	44.44	AAAAA	C
ATOM	1211	CD1	LEU	122	25.778	2.448	57.859	1.00	32.19	AAAAA	C
ATOM	1212	CD2	LEU	122	26.136	3.057	60.170	1.00	47.76	AAAAA	C
ATOM	1213	C	LEU	122	25.212	0.910	61.935	1.00	44.85	AAAAA	C
ATOM	1214	O	LEU	122	25.269	1.759	62.839	1.00	47.66	AAAAA	O
ATOM	1215	N	SER	123	24.104	0.137	61.843	1.00	40.12	AAAAA	N
ATOM	1217	CA	SER	123	22.949	0.435	62.703	1.00	33.88	AAAAA	C
ATOM	1218	CB	SER	123	21.754	-0.330	62.239	1.00	19.26	AAAAA	C
ATOM	1219	OG	SER	123	21.964	-1.762	62.402	1.00	34.35	AAAAA	O
ATOM	1221	C	SER	123	23.165	0.060	64.159	1.00	37.43	AAAAA	C
ATOM	1222	O	SER	123	22.326	0.280	65.025	1.00	35.33	AAAAA	O
ATOM	1223	N	THR	124	24.242	-0.698	64.432	1.00	39.03	AAAAA	N
ATOM	1225	CA	THR	124	24.554	-1.165	65.753	1.00	37.78	AAAAA	C
ATOM	1226	CB	THR	124	25.368	-2.461	65.719	1.00	42.39	AAAAA	C
ATOM	1227	OG1	THR	124	26.502	-2.020	64.924	1.00	47.70	AAAAA	O
ATOM	1229	CG2	THR	124	24.677	-3.622	65.006	1.00	40.93	AAAAA	C
ATOM	1230	C	THR	124	25.522	-0.206	66.445	1.00	39.29	AAAAA	C
ATOM	1231	O	THR	124	25.948	-0.642	67.499	1.00	41.41	AAAAA	O

ATOM	1238	C	VAL	125	25.759	3.127	67.179	1.00 41.17	AAAA C
ATOM	1239	O	VAL	125	24.941	3.750	66.531	1.00 41.22	AAAA O
ATOM	1240	N	ASP	126	26.072	3.636	68.367	1.00 44.54	AAAA N
ATOM	1242	CA	ASP	126	25.310	4.734	68.967	1.00 37.44	AAAA C
ATOM	1243	CB	ASP	126	24.862	4.335	70.342	1.00 34.73	AAAA C
ATOM	1244	CG	ASP	126	23.879	5.303	70.983	1.00 45.53	AAAA C
ATOM	1245	OD1	ASP	126	23.699	6.520	70.685	1.00 27.71	AAAA O
ATOM	1246	OD2	ASP	126	23.220	4.865	71.964	1.00 52.32	AAAA O
ATOM	1247	C	ASP	126	26.146	5.985	68.872	1.00 40.83	AAAA C
ATOM	1248	O	ASP	126	26.740	6.400	69.888	1.00 42.78	AAAA O
ATOM	1249	N	TRP	127	26.029	6.649	67.704	1.00 35.42	AAAA N
ATOM	1251	CA	TRP	127	26.777	7.856	67.410	1.00 33.02	AAAA C
ATOM	1252	CB	TRP	127	26.568	8.296	65.930	1.00 24.89	AAAA C
ATOM	1253	CG	TRP	127	27.195	7.372	64.907	1.00 34.36	AAAA C
ATOM	1254	CD2	TRP	127	28.587	7.208	64.518	1.00 28.60	AAAA C
ATOM	1255	CE2	TRP	127	28.631	6.186	63.579	1.00 29.06	AAAA C
ATOM	1256	CE3	TRP	127	29.778	7.845	64.873	1.00 35.51	AAAA C
ATOM	1257	CD1	TRP	127	26.465	6.450	64.188	1.00 18.67	AAAA C
ATOM	1258	NE1	TRP	127	27.311	5.712	63.394	1.00 42.87	AAAA N
ATOM	1260	CZ2	TRP	127	29.792	5.783	62.954	1.00 32.53	AAAA C
ATOM	1261	CZ3	TRP	127	30.972	7.445	64.285	1.00 31.51	AAAA C
ATOM	1262	CH2	TRP	127	30.937	6.405	63.336	1.00 37.86	AAAA C
ATOM	1263	C	TRP	127	26.558	9.010	68.367	1.00 36.09	AAAA C
ATOM	1264	O	TRP	127	27.382	9.977	68.497	1.00 40.87	AAAA O
ATOM	1265	N	SER	128	25.493	8.931	69.171	1.00 31.24	AAAA N
ATOM	1267	CA	SER	128	25.201	10.041	70.081	1.00 34.04	AAAA C
ATOM	1268	CB	SER	128	23.757	10.042	70.603	1.00 36.87	AAAA C
ATOM	1269	OG	SER	128	23.433	8.917	71.424	1.00 28.96	AAAA O
ATOM	1271	C	SER	128	26.133	9.975	71.292	1.00 32.39	AAAA C
ATOM	1272	O	SER	128	26.212	10.857	72.134	1.00 30.91	AAAA O
ATOM	1273	N	LEU	129	26.662	8.792	71.549	1.00 27.18	AAAA N
ATOM	1275	CA	LEU	129	27.701	8.607	72.526	1.00 36.73	AAAA C
ATOM	1276	CB	LEU	129	27.920	7.132	72.741	1.00 32.53	AAAA C
ATOM	1277	CG	LEU	129	26.795	6.324	73.371	1.00 39.28	AAAA C
ATOM	1278	CD1	LEU	129	27.292	5.024	73.975	1.00 32.54	AAAA C
ATOM	1279	CD2	LEU	129	26.237	7.117	74.560	1.00 32.12	AAAA C
ATOM	1280	C	LEU	129	29.054	9.226	72.113	1.00 38.04	AAAA C
ATOM	1281	O	LEU	129	29.645	10.001	72.874	1.00 34.50	AAAA O
ATOM	1282	N	ILE	130	29.316	9.217	70.807	1.00 42.09	AAAA N
ATOM	1284	CA	ILE	130	30.480	9.743	70.144	1.00 41.35	AAAA C
ATOM	1285	CB	ILE	130	30.793	8.886	68.901	1.00 41.73	AAAA C
ATOM	1286	CG2	ILE	130	31.992	9.434	68.176	1.00 31.95	AAAA C
ATOM	1287	CG1	ILE	130	30.969	7.413	69.347	1.00 26.64	AAAA C
ATOM	1288	CD1	ILE	130	31.053	6.457	68.165	1.00 42.65	AAAA C
ATOM	1289	C	ILE	130	30.305	11.178	69.679	1.00 46.48	AAAA C
ATOM	1290	O	ILE	130	31.224	11.985	69.966	1.00 38.46	AAAA O
ATOM	1291	N	LEU	131	29.089	11.495	69.193	1.00 45.14	AAAA N
ATOM	1293	CA	LEU	131	28.895	12.865	68.651	1.00 41.45	AAAA C
ATOM	1294	CB	LEU	131	28.499	12.616	67.259	1.00 46.81	AAAA C
ATOM	1295	CG	LEU	131	28.823	12.805	65.878	1.00 36.79	AAAA C
ATOM	1296	CD1	LEU	131	29.128	11.405	65.324	1.00 30.15	AAAA C
ATOM	1297	CD2	LEU	131	27.625	13.581	65.334	1.00 19.92	AAAA C
ATOM	1298	C	LEU	131	27.661	13.525	69.285	1.00 39.28	AAAA C
ATOM	1299	O	LEU	131	26.599	12.867	69.311	1.00 37.75	AAAA O
ATOM	1300	N	ASP	132	27.742	14.811	69.518	1.00 33.73	AAAA N
ATOM	1302	CA	ASP	132	26.610	15.542	70.003	1.00 38.20	AAAA C
ATOM	1303	CB	ASP	132	27.017	16.944	70.381	1.00 43.17	AAAA C
ATOM	1304	CG	ASP	132	27.349	17.137	71.834	1.00 43.29	AAAA C
ATOM	1305	OD1	ASP	132	27.536	16.122	72.521	1.00 47.12	AAAA O
ATOM	1306	OD2	ASP	132	27.413	18.331	72.208	1.00 60.58	AAAA O
ATOM	1307	C	ASP	132	25.520	15.659	68.946	1.00 43.46	AAAA C
ATOM	1308	O	ASP	132	24.481	15.032	68.939	1.00 49.32	AAAA O
ATOM	1309	N	ALA	133	25.754	16.398	67.900	1.00 45.03	AAAA N
ATOM	1311	CA	ALA	133	24.947	16.776	66.773	1.00 38.62	AAAA C
ATOM	1312	CB	ALA	133	25.628	17.987	66.092	1.00 33.82	AAAA C
ATOM	1313	C	ALA	133	24.694	15.669	65.775	1.00 33.33	AAAA C
ATOM	1314	O	ALA	133	24.777	15.791	64.517	1.00 33.71	AAAA O
ATOM	1315	N	VAL	134	24.115	14.565	66.219	1.00 27.88	AAAA N
ATOM	1317	CA	VAL	134	23.813	13.440	65.377	1.00 29.90	AAAA C
ATOM	1318	CB	VAL	134	23.202	12.241	66.120	1.00 40.63	AAAA C
ATOM	1319	CG1	VAL	134	24.265	11.441	66.855	1.00 35.20	AAAA C
ATOM	1320	CG2	VAL	134	22.095	12.701	67.068	1.00 30.84	AAAA C
ATOM	1321	C	VAL	134	22.735	13.732	64.353	1.00 36.98	AAAA C
ATOM	1322	O	VAL	134	22.616	13.106	63.292	1.00 32.95	AAAA O
ATOM	1323	N	SER	135	21.920	14.777	64.626	1.00 39.65	AAAA N
ATOM	1325	CA	SER	135	20.886	15.139	63.692	1.00 43.12	AAAA C
ATOM	1326	CB	SER	135	20.093	16.277	64.305	1.00 45.19	AAAA C
ATOM	1327	OG	SER	135	20.882	17.369	64.684	1.00 39.25	AAAA O

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ATOM	1329	C	SER	135	21.396	15.516	62.309	1.00	41.15	AAAA	C
ATOM	1330	O	SER	135	20.615	15.642	61.359	1.00	43.81	AAAA	O
ATOM	1331	N	ASN	136	22.615	15.911	62.165	1.00	41.11	AAAA	N
ATOM	1333	CA	ASN	136	23.298	16.353	60.978	1.00	37.21	AAAA	C
ATOM	1334	CB	ASN	136	24.324	17.372	61.399	1.00	39.66	AAAA	C
ATOM	1335	CG	ASN	136	23.724	18.709	61.717	1.00	36.59	AAAA	C
ATOM	1336	OD1	ASN	136	22.695	19.079	61.149	1.00	50.81	AAAA	O
ATOM	1337	ND2	ASN	136	24.379	19.441	62.585	1.00	47.85	AAAA	N
ATOM	1340	C	ASN	136	24.031	15.230	60.259	1.00	35.31	AAAA	C
ATOM	1341	O	ASN	136	24.535	15.484	59.194	1.00	38.70	AAAA	O
ATOM	1342	N	ASN	137	24.057	14.035	60.793	1.00	29.11	AAAA	N
ATOM	1344	CA	ASN	137	24.721	12.959	60.126	1.00	32.98	AAAA	C
ATOM	1345	CB	ASN	137	24.737	11.703	61.033	1.00	24.45	AAAA	C
ATOM	1346	CG	ASN	137	25.631	11.965	62.217	1.00	26.63	AAAA	C
ATOM	1347	OD1	ASN	137	26.070	13.121	62.369	1.00	30.22	AAAA	O
ATOM	1348	ND2	ASN	137	25.830	10.923	63.000	1.00	18.90	AAAA	N
ATOM	1351	C	ASN	137	23.950	12.749	58.817	1.00	35.89	AAAA	C
ATOM	1352	O	ASN	137	22.716	12.755	58.855	1.00	38.57	AAAA	O
ATOM	1353	N	TYR	138	24.592	12.251	57.785	1.00	32.86	AAAA	N
ATOM	1355	CA	TYR	138	24.093	11.983	56.489	1.00	30.25	AAAA	C
ATOM	1356	CB	TYR	138	24.682	12.861	55.421	1.00	27.10	AAAA	C
ATOM	1357	CG	TYR	138	24.018	12.741	54.078	1.00	37.89	AAAA	C
ATOM	1358	CD1	TYR	138	23.083	13.671	53.648	1.00	39.22	AAAA	C
ATOM	1359	CE1	TYR	138	22.510	13.579	52.392	1.00	37.65	AAAA	C
ATOM	1360	CD2	TYR	138	24.357	11.717	53.195	1.00	44.28	AAAA	C
ATOM	1361	CE2	TYR	138	23.801	11.615	51.951	1.00	41.97	AAAA	C
ATOM	1362	CZ	TYR	138	22.868	12.562	51.564	1.00	39.42	AAAA	C
ATOM	1363	OH	TYR	138	22.296	12.504	50.318	1.00	45.48	AAAA	O
ATOM	1365	C	TYR	138	24.373	10.578	56.051	1.00	31.33	AAAA	C
ATOM	1366	O	TYR	138	25.505	10.317	55.797	1.00	37.76	AAAA	O
ATOM	1367	N	ILE	139	23.461	9.660	56.116	1.00	35.40	AAAA	N
ATOM	1369	CA	ILE	139	23.637	8.249	55.935	1.00	34.04	AAAA	C
ATOM	1370	CB	ILE	139	23.234	7.450	57.171	1.00	28.66	AAAA	C
ATOM	1371	CG2	ILE	139	23.640	5.984	57.093	1.00	21.99	AAAA	C
ATOM	1372	CG1	ILE	139	23.711	8.057	58.469	1.00	42.81	AAAA	C
ATOM	1373	CD1	ILE	139	24.455	7.100	59.389	1.00	52.23	AAAA	C
ATOM	1374	C	ILE	139	22.729	7.708	54.830	1.00	35.73	AAAA	C
ATOM	1375	O	ILE	139	21.538	7.890	54.757	1.00	42.61	AAAA	O
ATOM	1376	N	VAL	140	23.286	6.997	53.873	1.00	35.29	AAAA	N
ATOM	1378	CA	VAL	140	22.533	6.481	52.755	1.00	32.39	AAAA	C
ATOM	1379	CB	VAL	140	21.967	7.627	51.881	1.00	36.05	AAAA	C
ATOM	1380	CG1	VAL	140	22.800	8.375	50.881	1.00	25.88	AAAA	C
ATOM	1381	CG2	VAL	140	20.807	7.034	51.047	1.00	34.96	AAAA	C
ATOM	1382	C	VAL	140	23.422	5.670	51.874	1.00	41.96	AAAA	C
ATOM	1383	O	VAL	140	24.537	6.172	51.637	1.00	44.03	AAAA	O
ATOM	1384	N	GLY	141	22.899	4.562	51.402	1.00	42.66	AAAA	N
ATOM	1386	CA	GLY	141	23.381	3.805	50.278	1.00	30.94	AAAA	C
ATOM	1387	C	GLY	141	24.265	2.696	50.835	1.00	38.98	AAAA	C
ATOM	1388	O	GLY	141	25.132	2.003	50.176	1.00	35.87	AAAA	O
ATOM	1389	N	ASN	142	23.985	2.418	52.116	1.00	38.92	AAAA	N
ATOM	1391	CA	ASN	142	24.858	1.390	52.746	1.00	44.32	AAAA	C
ATOM	1392	CB	ASN	142	25.257	1.774	54.187	1.00	43.12	AAAA	C
ATOM	1393	CG	ASN	142	26.131	3.022	54.152	1.00	42.00	AAAA	C
ATOM	1394	OD1	ASN	142	26.984	3.077	53.269	1.00	40.47	AAAA	O
ATOM	1395	ND2	ASN	142	25.945	4.022	55.019	1.00	41.98	AAAA	N
ATOM	1398	C	ASN	142	24.153	0.066	52.687	1.00	45.84	AAAA	C
ATOM	1399	O	ASN	142	23.113	-0.015	52.055	1.00	49.65	AAAA	O
ATOM	1400	N	LYS	143	24.674	-0.990	53.272	1.00	45.23	AAAA	N
ATOM	1402	CA	LYS	143	24.073	-2.299	53.195	1.00	49.14	AAAA	C
ATOM	1403	CB	LYS	143	25.166	-3.328	53.433	1.00	41.49	AAAA	C
ATOM	1404	CG	LYS	143	24.750	-4.686	53.832	1.00	44.96	AAAA	C
ATOM	1405	CD	LYS	143	25.512	-5.743	53.100	1.00	48.66	AAAA	C
ATOM	1406	CE	LYS	143	25.043	-7.131	53.558	1.00	38.35	AAAA	C
ATOM	1407	NZ	LYS	143	26.080	-8.093	53.040	1.00	53.83	AAAA	N
ATOM	1411	C	LYS	143	22.902	-2.431	54.169	1.00	52.85	AAAA	C
ATOM	1412	O	LYS	143	22.960	-2.099	55.360	1.00	55.21	AAAA	O
ATOM	1413	N	PRO	144	21.806	-3.047	53.731	1.00	52.39	AAAA	N
ATOM	1414	CD	PRO	144	21.617	-3.469	52.315	1.00	52.58	AAAA	C
ATOM	1415	CA	PRO	144	20.559	-3.118	54.489	1.00	48.30	AAAA	C
ATOM	1416	CB	PRO	144	19.549	-3.602	53.455	1.00	51.41	AAAA	C
ATOM	1417	CG	PRO	144	20.134	-3.299	52.099	1.00	50.41	AAAA	C
ATOM	1418	C	PRO	144	20.621	-4.050	55.659	1.00	44.65	AAAA	C
ATOM	1419	O	PRO	144	20.904	-5.236	55.501	1.00	36.84	AAAA	O
ATOM	1420	N	PRO	145	20.318						

ATOM	1425	C	PRO	145	19.993	-5.655	58.155	1.00	47.17	AAAA	C
ATOM	1426	O	PRO	145	20.556	-6.592	58.768	1.00	48.05	AAAA	O
ATOM	1427	N	LYS	146	18.879	-5.924	57.489	1.00	53.72	AAAA	N
ATOM	1429	CA	LYS	146	18.268	-7.229	57.295	1.00	56.94	AAAA	C
ATOM	1430	CB	LYS	146	16.894	-7.050	56.647	1.00	65.44	AAAA	C
ATOM	1431	CG	LYS	146	16.220	-8.232	55.982	1.00	64.32	AAAA	C
ATOM	1432	CD	LYS	146	14.797	-8.422	56.451	0.01	62.75	AAAA	C
ATOM	1433	CE	LYS	146	14.194	-9.717	55.934	0.01	62.14	AAAA	C
ATOM	1434	NZ	LYS	146	12.720	-9.610	55.753	0.01	61.38	AAAA	N
ATOM	1438	C	LYS	146	19.138	-8.138	56.446	1.00	61.40	AAAA	C
ATOM	1439	O	LYS	146	19.237	-9.346	56.732	1.00	66.22	AAAA	O
ATOM	1440	N	GLU	147	19.779	-7.649	55.389	1.00	62.92	AAAA	N
ATOM	1442	CA	GLU	147	20.827	-8.446	54.742	1.00	67.00	AAAA	C
ATOM	1443	CB	GLU	147	21.101	-8.070	53.294	1.00	62.32	AAAA	C
ATOM	1444	CG	GLU	147	19.867	-7.579	52.567	1.00	73.15	AAAA	C
ATOM	1445	CD	GLU	147	20.164	-7.413	51.093	1.00	85.90	AAAA	C
ATOM	1446	OE1	GLU	147	21.339	-7.636	50.701	1.00	95.25	AAAA	O
ATOM	1447	OE2	GLU	147	19.201	-7.053	50.376	1.00	87.47	AAAA	O
ATOM	1448	C	GLU	147	22.136	-8.470	55.541	1.00	69.40	AAAA	C
ATOM	1449	O	GLU	147	22.883	-9.437	55.361	1.00	72.86	AAAA	O
ATOM	1450	N	CYS	148	22.506	-7.484	56.355	1.00	66.76	AAAA	N
ATOM	1452	CA	CYS	148	23.693	-7.588	57.183	1.00	64.65	AAAA	C
ATOM	1453	C	CYS	148	23.598	-8.702	58.196	1.00	65.56	AAAA	C
ATOM	1454	O	CYS	148	24.473	-9.524	58.414	1.00	65.89	AAAA	O
ATOM	1455	CB	CYS	148	23.952	-6.301	58.001	1.00	57.29	AAAA	C
ATOM	1456	SG	CYS	148	24.565	-5.091	56.808	1.00	59.22	AAAA	S
ATOM	1457	N	GLY	149	22.514	-8.743	58.977	1.00	67.88	AAAA	N
ATOM	1459	CA	GLY	149	22.387	-9.744	60.029	1.00	62.15	AAAA	C
ATOM	1460	C	GLY	149	23.443	-9.627	61.120	1.00	59.18	AAAA	C
ATOM	1461	O	GLY	149	23.925	-10.603	61.699	1.00	61.11	AAAA	O
ATOM	1462	N	ASP	150	23.717	-8.426	61.596	1.00	54.88	AAAA	N
ATOM	1464	CA	ASP	150	24.794	-8.198	62.533	1.00	55.78	AAAA	C
ATOM	1465	CB	ASP	150	25.041	-6.703	62.750	1.00	49.10	AAAA	C
ATOM	1466	CG	ASP	150	25.320	-6.034	61.410	1.00	58.50	AAAA	C
ATOM	1467	OD1	ASP	150	25.726	-6.796	60.480	1.00	57.73	AAAA	O
ATOM	1468	OD2	ASP	150	25.102	-4.819	61.363	1.00	49.69	AAAA	O
ATOM	1469	C	ASP	150	24.519	-8.854	63.855	1.00	59.36	AAAA	C
ATOM	1470	O	ASP	150	23.392	-8.820	64.377	1.00	67.48	AAAA	O
ATOM	1471	N	LEU	151	25.532	-9.369	64.524	1.00	54.39	AAAA	N
ATOM	1473	CA	LEU	151	25.314	-9.908	65.853	1.00	52.79	AAAA	C
ATOM	1474	CB	LEU	151	25.208	-11.409	65.806	1.00	58.55	AAAA	C
ATOM	1475	CG	LEU	151	24.063	-12.101	65.092	1.00	69.45	AAAA	C
ATOM	1476	CD1	LEU	151	24.515	-13.421	64.489	1.00	65.26	AAAA	C
ATOM	1477	CD2	LEU	151	22.837	-12.372	65.951	1.00	65.43	AAAA	C
ATOM	1478	C	LEU	151	26.409	-9.454	66.805	1.00	51.93	AAAA	C
ATOM	1479	O	LEU	151	27.598	-9.734	66.634	1.00	55.59	AAAA	O
ATOM	1480	N	CYS	152	26.024	-8.773	67.849	1.00	48.62	AAAA	N
ATOM	1482	CA	CYS	152	26.992	-8.189	68.740	1.00	56.73	AAAA	C
ATOM	1483	C	CYS	152	27.650	-9.325	69.493	1.00	63.58	AAAA	C
ATOM	1484	O	CYS	152	27.074	-10.405	69.575	1.00	62.40	AAAA	O
ATOM	1485	CB	CYS	152	26.358	-7.144	69.657	1.00	41.99	AAAA	C
ATOM	1486	SG	CYS	152	25.985	-5.635	68.703	1.00	55.83	AAAA	S
ATOM	1487	N	PRO	153	28.826	-9.072	70.059	1.00	68.05	AAAA	N
ATOM	1488	CD	PRO	153	29.618	-7.838	69.903	1.00	66.66	AAAA	C
ATOM	1489	CA	PRO	153	29.497	-10.094	70.851	1.00	70.60	AAAA	C
ATOM	1490	CB	PRO	153	30.601	-9.323	71.557	1.00	69.98	AAAA	C
ATOM	1491	CG	PRO	153	30.861	-8.159	70.690	1.00	70.58	AAAA	C
ATOM	1492	C	PRO	153	28.543	-10.734	71.850	1.00	69.64	AAAA	C
ATOM	1493	O	PRO	153	27.859	-10.075	72.615	1.00	69.58	AAAA	O
ATOM	1494	N	GLY	154	28.444	-12.049	71.843	1.00	71.23	AAAA	N
ATOM	1496	CA	GLY	154	27.610	-12.804	72.745	1.00	78.07	AAAA	C
ATOM	1497	C	GLY	154	26.245	-13.230	72.223	1.00	81.75	AAAA	C
ATOM	1498	O	GLY	154	25.786	-14.318	72.547	1.00	80.26	AAAA	O
ATOM	1499	N	THR	155	25.649	-12.468	71.314	1.00	84.54	AAAA	N
ATOM	1501	CA	THR	155	24.314	-12.683	70.828	1.00	89.38	AAAA	C
ATOM	1502	CB	THR	155	24.016	-11.661	69.705	1.00	85.07	AAAA	C
ATOM	1503	OG1	THR	155	24.063	-10.417	70.420	1.00	84.51	AAAA	O
ATOM	1505	CG2	THR	155	22.686	-11.995	69.092	1.00	82.27	AAAA	C
ATOM	1506	C	THR	155	24.060	-14.094	70.353	1.00	93.69	AAAA	C
ATOM	1507	O	THR	155	23.005	-14.664	70.617	1.00	95.92	AAAA	O
ATOM	1508	N	MET	156	25.003	-14.655	69.617	1.00	97.23	AAAA	N
ATOM	1510	CA	MET	156	24.884	-15.973	69.024	1.00	99.05	AAAA	C
ATOM	1511	CB	MET	156	25.907	-16.190	67.896	1.00	100.40	AAAA	C
ATOM	1512	CG	MET	156	25.456	-15.675					

ATOM	1517	N	ALA	157	25.974	-17.057	70.967	1.00100.53	AAAAA N
ATOM	1519	CA	ALA	157	26.022	-18.102	71.986	1.00101.00	AAAAA C
ATOM	1520	CB	ALA	157	27.317	-18.158	72.766	1.00103.42	AAAAA C
ATOM	1521	C	ALA	157	24.856	-17.890	72.959	1.00101.10	AAAAA C
ATOM	1522	O	ALA	157	23.893	-18.654	72.921	1.00104.59	AAAAA O
ATOM	1523	N	GLU	158	24.984	-16.906	73.841	1.00 98.39	AAAAA N
ATOM	1525	CA	GLU	158	23.935	-16.629	74.781	1.00 97.43	AAAAA C
ATOM	1526	CB	GLU	158	23.128	-17.865	75.208	1.00105.93	AAAAA C
ATOM	1527	CG	GLU	158	21.687	-17.546	75.560	1.00113.87	AAAAA C
ATOM	1528	CD	GLU	158	21.347	-16.081	75.302	1.00119.34	AAAAA C
ATOM	1529	OE1	GLU	158	21.284	-15.733	74.096	1.00126.27	AAAAA O
ATOM	1530	OE2	GLU	158	21.199	-15.317	76.282	1.00117.79	AAAAA O
ATOM	1531	C	GLU	158	24.434	-15.915	76.025	1.00 95.00	AAAAA C
ATOM	1532	O	GLU	158	23.988	-16.117	77.145	1.00 95.89	AAAAA O
ATOM	1533	N	SER	159	25.276	-14.942	75.769	1.00 93.30	AAAAA N
ATOM	1535	CA	SER	159	25.810	-14.119	76.848	1.00 92.28	AAAAA C
ATOM	1536	CB	SER	159	26.989	-14.805	77.517	1.00 97.37	AAAAA C
ATOM	1537	OG	SER	159	26.972	-14.427	78.886	1.00 98.08	AAAAA O
ATOM	1539	C	SER	159	26.228	-12.793	76.226	1.00 91.47	AAAAA C
ATOM	1540	O	SER	159	27.368	-12.592	75.810	1.00 92.75	AAAAA O
ATOM	1541	N	PRO	160	25.196	-12.007	75.932	1.00 88.65	AAAAA N
ATOM	1542	CD	PRO	160	23.789	-12.122	76.395	1.00 86.67	AAAAA C
ATOM	1543	CA	PRO	160	25.463	-10.701	75.361	1.00 84.74	AAAAA C
ATOM	1544	CB	PRO	160	24.125	-9.978	75.456	1.00 84.79	AAAAA C
ATOM	1545	CG	PRO	160	23.370	-10.671	76.515	1.00 84.62	AAAAA C
ATOM	1546	C	PRO	160	26.503	-10.025	76.236	1.00 79.60	AAAAA C
ATOM	1547	O	PRO	160	26.319	-9.934	77.456	1.00 79.70	AAAAA O
ATOM	1548	N	MET	161	27.563	-9.522	75.596	1.00 74.45	AAAAA N
ATOM	1550	CA	MET	161	28.530	-8.735	76.378	1.00 67.04	AAAAA C
ATOM	1551	CB	MET	161	29.924	-9.178	76.038	1.00 69.93	AAAAA C
ATOM	1552	CG	MET	161	30.118	-10.630	75.706	1.00 71.43	AAAAA C
ATOM	1553	SD	MET	161	30.716	-11.621	77.094	1.00 85.25	AAAAA S
ATOM	1554	CE	MET	161	29.841	-10.905	78.471	1.00 69.31	AAAAA C
ATOM	1555	C	MET	161	28.358	-7.234	76.189	1.00 61.76	AAAAA C
ATOM	1556	O	MET	161	28.788	-6.443	77.034	1.00 58.60	AAAAA O
ATOM	1557	N	CYS	162	27.681	-6.819	75.095	1.00 54.81	AAAAA N
ATOM	1559	CA	CYS	162	27.493	-5.384	74.938	1.00 49.76	AAAAA C
ATOM	1560	C	CYS	162	26.306	-4.777	75.670	1.00 51.52	AAAAA C
ATOM	1561	O	CYS	162	25.224	-5.324	75.928	1.00 53.89	AAAAA O
ATOM	1562	CB	CYS	162	27.422	-5.099	73.459	1.00 48.31	AAAAA C
ATOM	1563	SG	CYS	162	28.533	-6.064	72.432	1.00 54.02	AAAAA S
ATOM	1564	N	GLU	163	26.409	-3.522	76.031	1.00 46.31	AAAAA N
ATOM	1566	CA	GLU	163	25.355	-2.675	76.538	1.00 47.19	AAAAA C
ATOM	1567	CB	GLU	163	26.051	-1.412	77.027	1.00 49.95	AAAAA C
ATOM	1568	CG	GLU	163	26.476	-1.364	78.465	1.00 62.30	AAAAA C
ATOM	1569	CD	GLU	163	25.817	-0.135	79.116	1.00 81.67	AAAAA C
ATOM	1570	OE1	GLU	163	26.470	0.473	80.016	1.00 73.22	AAAAA O
ATOM	1571	OE2	GLU	163	24.646	0.208	78.721	1.00 80.93	AAAAA O
ATOM	1572	C	GLU	163	24.299	-2.340	75.472	1.00 49.05	AAAAA C
ATOM	1573	O	GLU	163	24.488	-2.423	74.234	1.00 45.90	AAAAA O
ATOM	1574	N	LYS	164	23.142	-1.815	75.880	1.00 47.43	AAAAA N
ATOM	1576	CA	LYS	164	22.011	-1.499	75.081	1.00 43.92	AAAAA C
ATOM	1577	CB	LYS	164	20.714	-2.244	75.450	1.00 44.48	AAAAA C
ATOM	1578	CG	LYS	164	20.560	-3.639	74.870	1.00 48.65	AAAAA C
ATOM	1579	CD	LYS	164	19.480	-4.432	75.622	1.00 49.04	AAAAA C
ATOM	1580	CE	LYS	164	18.409	-5.012	74.720	1.00 49.21	AAAAA C
ATOM	1581	NZ	LYS	164	17.951	-6.372	75.134	1.00 37.67	AAAAA N
ATOM	1585	C	LYS	164	21.615	-0.040	75.204	1.00 45.01	AAAAA C
ATOM	1586	O	LYS	164	21.466	0.484	76.282	1.00 45.69	AAAAA O
ATOM	1587	N	THR	165	21.333	0.570	74.034	1.00 44.94	AAAAA N
ATOM	1589	CA	THR	165	20.775	1.943	74.077	1.00 43.13	AAAAA C
ATOM	1590	CB	THR	165	21.831	2.952	73.553	1.00 47.81	AAAAA C
ATOM	1591	OG1	THR	165	22.053	2.689	72.127	1.00 39.13	AAAAA O
ATOM	1593	CG2	THR	165	23.119	2.842	74.362	1.00 40.40	AAAAA C
ATOM	1594	C	THR	165	19.532	1.881	73.189	1.00 40.92	AAAAA C
ATOM	1595	O	THR	165	19.346	0.897	72.414	1.00 35.91	AAAAA O
ATOM	1596	N	THR	166	18.781	2.985	73.173	1.00 39.18	AAAAA N
ATOM	1598	CA	THR	166	17.689	2.991	72.182	1.00 42.97	AAAAA C
ATOM	1599	CB	THR	166	16.297	3.096	72.833	1.00 55.99	AAAAA C
ATOM	1600	OG1	THR	166	15.662	4.385	72.819	1.00 41.42	AAAAA O
ATOM	1602	CG2	THR	166	16.157	2.740	74.313	1.00 42.83	AAAAA C
ATOM	1603	C	THR	166	17.983	4.051	71.137	1.00 40.17	AAAAA C
ATOM	1604	O	THR	166	18.219	5.206	71.509	1.00 35.72	AAAAA O
ATOM	1605	N	ILE	167	17.912	3.725	69.866	1.00 42.21	AAAAA N
ATOM	1607	CA	ILE	167	18.182	4.672	68.777	1.00 41.05	AAAAA C
ATOM	1608	CB	ILE	167	19.437	4.335	67.904	1.00 39.50	AAAAA C
ATOM	1609	CG2	ILE	167	19.589	5.346	66.716	1.00 15.26	AAAAA C
ATOM	1610	CG1	ILE	167	20.722	4.305	68.724	1.00 36.20	AAAAA C

Figure 1A-16

ATOM	1611	CD1	ILE	167	21.899	3.665	67.966	1.00	35.70	AAAAA	C
ATOM	1612	C	ILE	167	16.937	4.524	67.882	1.00	40.94	AAAAA	C
ATOM	1613	O	ILE	167	16.655	3.435	67.394	1.00	35.51	AAAAA	O
ATOM	1614	N	ASN	168	16.318	5.635	67.537	1.00	42.29	AAAAA	N
ATOM	1616	CA	ASN	168	15.112	5.633	66.713	1.00	45.22	AAAAA	C
ATOM	1617	CB	ASN	168	15.526	5.253	65.292	1.00	45.69	AAAAA	C
ATOM	1618	CG	ASN	168	14.497	5.696	64.244	1.00	51.19	AAAAA	C
ATOM	1619	OD1	ASN	168	14.344	5.112	63.150	1.00	41.75	AAAAA	O
ATOM	1620	ND2	ASN	168	13.749	6.763	64.522	1.00	48.89	AAAAA	N
ATOM	1623	C	ASN	168	13.954	4.739	67.141	1.00	46.55	AAAAA	C
ATOM	1624	O	ASN	168	13.544	3.879	66.326	1.00	45.95	AAAAA	O
ATOM	1625	N	ASN	169	13.644	4.728	68.433	1.00	45.12	AAAAA	N
ATOM	1627	CA	ASN	169	12.717	3.759	69.007	1.00	43.67	AAAAA	C
ATOM	1628	CB	ASN	169	11.315	4.106	68.540	1.00	36.84	AAAAA	C
ATOM	1629	CG	ASN	169	10.943	5.487	69.093	1.00	42.75	AAAAA	C
ATOM	1630	OD1	ASN	169	10.917	5.779	70.280	1.00	36.67	AAAAA	O
ATOM	1631	ND2	ASN	169	10.658	6.448	68.213	1.00	40.74	AAAAA	N
ATOM	1634	C	ASN	169	13.003	2.306	68.719	1.00	44.69	AAAAA	C
ATOM	1635	O	ASN	169	12.100	1.544	68.383	1.00	45.72	AAAAA	O
ATOM	1636	N	GLU	170	14.226	1.907	68.862	1.00	41.64	AAAAA	N
ATOM	1638	CA	GLU	170	14.655	0.513	68.850	1.00	45.88	AAAAA	C
ATOM	1639	CB	GLU	170	15.283	0.278	67.524	1.00	55.92	AAAAA	C
ATOM	1640	CG	GLU	170	15.028	-0.953	66.702	1.00	67.08	AAAAA	C
ATOM	1641	CD	GLU	170	14.517	-0.605	65.294	1.00	74.56	AAAAA	C
ATOM	1642	OE1	GLU	170	13.869	0.466	65.049	1.00	77.75	AAAAA	O
ATOM	1643	OE2	GLU	170	14.763	-1.437	64.389	1.00	70.71	AAAAA	O
ATOM	1644	C	GLU	170	15.647	0.379	70.010	1.00	47.10	AAAAA	C
ATOM	1645	O	GLU	170	16.582	1.172	70.213	1.00	49.92	AAAAA	O
ATOM	1646	N	TYR	171	15.344	-0.462	70.952	1.00	49.10	AAAAA	N
ATOM	1648	CA	TYR	171	16.231	-0.688	72.097	1.00	51.81	AAAAA	C
ATOM	1649	CB	TYR	171	15.434	-0.861	73.359	1.00	49.94	AAAAA	C
ATOM	1650	CG	TYR	171	16.175	-1.168	74.620	1.00	48.90	AAAAA	C
ATOM	1651	CD1	TYR	171	16.980	-0.210	75.237	1.00	46.46	AAAAA	C
ATOM	1652	CE1	TYR	171	17.634	-0.469	76.407	1.00	41.17	AAAAA	C
ATOM	1653	CD2	TYR	171	16.065	-2.429	75.194	1.00	43.62	AAAAA	C
ATOM	1654	CE2	TYR	171	16.734	-2.675	76.366	1.00	44.44	AAAAA	C
ATOM	1655	CZ	TYR	171	17.516	-1.718	76.973	1.00	43.58	AAAAA	C
ATOM	1656	OH	TYR	171	18.174	-2.017	78.146	1.00	40.16	AAAAA	O
ATOM	1658	C	TYR	171	17.058	-1.938	71.832	1.00	51.41	AAAAA	C
ATOM	1659	O	TYR	171	16.519	-3.024	71.889	1.00	52.59	AAAAA	O
ATOM	1660	N	ASN	172	18.331	-1.752	71.493	1.00	53.70	AAAAA	N
ATOM	1662	CA	ASN	172	19.203	-2.898	71.193	1.00	52.36	AAAAA	C
ATOM	1663	CB	ASN	172	19.085	-3.278	69.709	1.00	55.43	AAAAA	C
ATOM	1664	CG	ASN	172	18.939	-4.766	69.498	1.00	61.75	AAAAA	C
ATOM	1665	OD1	ASN	172	19.233	-5.646	70.304	1.00	61.61	AAAAA	O
ATOM	1666	ND2	ASN	172	18.449	-5.048	68.295	1.00	57.97	AAAAA	N
ATOM	1669	C	ASN	172	20.665	-2.712	71.560	1.00	43.81	AAAAA	C
ATOM	1670	O	ASN	172	21.163	-1.760	72.213	1.00	39.38	AAAAA	O
ATOM	1671	N	TYR	173	21.373	-3.796	71.393	1.00	43.20	AAAAA	N
ATOM	1673	CA	TYR	173	22.794	-3.929	71.698	1.00	44.76	AAAAA	C
ATOM	1674	CB	TYR	173	23.223	-5.374	71.514	1.00	41.66	AAAAA	C
ATOM	1675	CG	TYR	173	22.759	-6.274	72.630	1.00	45.18	AAAAA	C
ATOM	1676	CD1	TYR	173	21.931	-7.316	72.237	1.00	46.48	AAAAA	C
ATOM	1677	CE1	TYR	173	21.438	-8.181	73.193	1.00	51.36	AAAAA	C
ATOM	1678	CD2	TYR	173	23.081	-6.132	73.978	1.00	44.86	AAAAA	C
ATOM	1679	CE2	TYR	173	22.583	-7.016	74.916	1.00	46.92	AAAAA	C
ATOM	1680	CZ	TYR	173	21.757	-8.038	74.535	1.00	50.33	AAAAA	C
ATOM	1681	OH	TYR	173	21.171	-9.006	75.328	1.00	50.64	AAAAA	O
ATOM	1683	C	TYR	173	23.673	-3.099	70.762	1.00	46.94	AAAAA	C
ATOM	1684	O	TYR	173	23.389	-2.983	69.567	1.00	49.76	AAAAA	O
ATOM	1685	N	ARG	174	24.579	-2.318	71.366	1.00	47.79	AAAAA	N
ATOM	1687	CA	ARG	174	25.517	-1.496	70.577	1.00	49.13	AAAAA	C
ATOM	1688	CB	ARG	174	25.537	-0.132	71.233	1.00	44.32	AAAAA	C
ATOM	1689	CG	ARG	174	24.210	0.623	71.234	1.00	48.14	AAAAA	C
ATOM	1690	CD	ARG	174	23.372	0.344	70.003	1.00	51.47	AAAAA	C
ATOM	1691	NE	ARG	174	21.974	0.760	70.039	1.00	48.35	AAAAA	N
ATOM	1693	CZ	ARG	174	21.144	0.570	69.017	1.00	48.23	AAAAA	C
ATOM	1694	NH1	ARG	174	21.477	0.022	67.864	1.00	38.96	AAAAA	N
ATOM	1697	NH2	ARG	174	19.909	1.022	69.197	1.00	54.65	AAAAA	N
ATOM	1700	C	ARG	174	26.921	-2.094	70.461	1.00	45.98	AAAAA	C
ATOM	1701	O	ARG	174	27.548	-2.557	71.406	1.00	44.97	AAAAA	O
ATOM	1702	N	CYS	175	27.493	-2.183	69.294	1.00	46.21	AAAAA	N
ATOM	1704	CA	CYS	175	28.787	-2.758	68.997	1.00	45.60</td		

ATOM	1711	CA	TRP	176	31.430	-2.091	66.325	1.00	42.48	AAAA	C
ATOM	1712	CB	TRP	176	32.769	-1.409	66.564	1.00	36.38	AAAA	C
ATOM	1713	CG	TRP	176	32.689	-0.069	67.203	1.00	25.56	AAAA	C
ATOM	1714	CD2	TRP	176	32.588	1.186	66.480	1.00	23.71	AAAA	C
ATOM	1715	CE2	TRP	176	32.558	2.217	67.422	1.00	32.40	AAAA	C
ATOM	1716	CE3	TRP	176	32.535	1.520	65.141	1.00	24.31	AAAA	C
ATOM	1717	CD1	TRP	176	32.730	0.257	68.525	1.00	28.37	AAAA	C
ATOM	1718	NE1	TRP	176	32.636	1.636	68.678	1.00	37.21	AAAA	N
ATOM	1720	CZ2	TRP	176	32.441	3.565	67.088	1.00	28.51	AAAA	C
ATOM	1721	CZ3	TRP	176	32.447	2.822	64.789	1.00	22.23	AAAA	C
ATOM	1722	CH2	TRP	176	32.406	3.817	65.745	1.00	29.51	AAAA	C
ATOM	1723	C	TRP	176	31.631	-3.268	65.408	1.00	39.30	AAAA	C
ATOM	1724	O	TRP	176	31.703	-3.121	64.199	1.00	39.15	AAAA	O
ATOM	1725	N	THR	177	31.682	-4.460	66.005	1.00	41.33	AAAA	N
ATOM	1727	CA	THR	177	31.964	-5.644	65.161	1.00	49.28	AAAA	C
ATOM	1728	CB	THR	177	33.480	-6.062	65.162	1.00	43.66	AAAA	C
ATOM	1729	OG1	THR	177	34.309	-5.025	64.613	1.00	47.85	AAAA	O
ATOM	1731	CG2	THR	177	33.676	-7.271	64.283	1.00	58.51	AAAA	C
ATOM	1732	C	THR	177	31.290	-6.814	65.858	1.00	48.76	AAAA	C
ATOM	1733	O	THR	177	30.982	-6.539	67.001	1.00	51.53	AAAA	O
ATOM	1734	N	THR	178	31.269	-8.000	65.331	1.00	51.96	AAAA	N
ATOM	1736	CA	THR	178	30.924	-9.236	65.946	1.00	58.95	AAAA	C
ATOM	1737	CB	THR	178	31.253	-10.500	65.082	1.00	66.55	AAAA	C
ATOM	1738	OG1	THR	178	31.505	-10.066	63.734	1.00	75.70	AAAA	O
ATOM	1740	CG2	THR	178	30.104	-11.489	65.148	1.00	74.23	AAAA	C
ATOM	1741	C	THR	178	31.714	-9.539	67.213	1.00	60.25	AAAA	C
ATOM	1742	O	THR	178	31.204	-10.202	68.135	1.00	66.05	AAAA	O
ATOM	1743	N	ASN	179	32.977	-9.130	67.253	1.00	57.56	AAAA	N
ATOM	1745	CA	ASN	179	33.793	-9.392	68.443	1.00	53.39	AAAA	C
ATOM	1746	CB	ASN	179	35.130	-10.024	68.068	1.00	48.46	AAAA	C
ATOM	1747	CG	ASN	179	34.897	-11.218	67.126	1.00	56.25	AAAA	C
ATOM	1748	OD1	ASN	179	34.412	-12.294	67.553	1.00	51.38	AAAA	O
ATOM	1749	ND2	ASN	179	35.229	-11.063	65.863	1.00	48.10	AAAA	N
ATOM	1752	C	ASN	179	34.096	-8.190	69.285	1.00	50.78	AAAA	C
ATOM	1753	O	ASN	179	34.556	-8.377	70.426	1.00	57.97	AAAA	O
ATOM	1754	N	ARG	180	33.626	-7.022	68.913	1.00	47.06	AAAA	N
ATOM	1756	CA	ARG	180	33.808	-5.820	69.691	1.00	48.25	AAAA	C
ATOM	1757	CB	ARG	180	34.925	-4.962	69.074	1.00	49.72	AAAA	C
ATOM	1758	CG	ARG	180	36.324	-5.501	69.285	1.00	60.92	AAAA	C
ATOM	1759	CD	ARG	180	37.288	-4.948	68.279	1.00	70.83	AAAA	C
ATOM	1760	NE	ARG	180	38.569	-5.605	68.203	1.00	76.18	AAAA	N
ATOM	1762	CZ	ARG	180	39.298	-5.895	69.276	1.00	76.59	AAAA	C
ATOM	1763	NH1	ARG	180	38.877	-5.608	70.498	1.00	80.82	AAAA	N
ATOM	1766	NH2	ARG	180	40.474	-6.478	69.180	1.00	79.33	AAAA	N
ATOM	1769	C	ARG	180	32.530	-4.977	69.821	1.00	48.10	AAAA	C
ATOM	1770	O	ARG	180	31.862	-4.476	68.905	1.00	46.99	AAAA	O
ATOM	1771	N	CYS	181	32.230	-4.728	71.063	1.00	44.80	AAAA	N
ATOM	1773	CA	CYS	181	31.199	-3.924	71.619	1.00	45.20	AAAA	C
ATOM	1774	C	CYS	181	31.646	-2.463	71.692	1.00	44.50	AAAA	C
ATOM	1775	O	CYS	181	32.835	-2.227	71.724	1.00	47.09	AAAA	O
ATOM	1776	CB	CYS	181	30.940	-4.282	73.110	1.00	43.88	AAAA	C
ATOM	1777	SG	CYS	181	30.363	-5.944	73.346	1.00	56.08	AAAA	S
ATOM	1778	N	GLN	182	30.659	-1.600	71.690	1.00	39.30	AAAA	N
ATOM	1780	CA	GLN	182	30.948	-0.177	71.690	1.00	43.43	AAAA	C
ATOM	1781	CB	GLN	182	29.749	0.619	71.196	1.00	23.99	AAAA	C
ATOM	1782	CG	GLN	182	29.809	2.085	71.435	1.00	28.57	AAAA	C
ATOM	1783	CD	GLN	182	28.757	2.867	70.733	1.00	29.35	AAAA	C
ATOM	1784	OE1	GLN	182	27.898	2.304	70.033	1.00	38.55	AAAA	O
ATOM	1785	NE2	GLN	182	28.857	4.164	70.912	1.00	28.14	AAAA	N
ATOM	1788	C	GLN	182	31.218	0.089	73.162	1.00	46.07	AAAA	C
ATOM	1789	O	GLN	182	30.458	-0.327	74.041	1.00	47.01	AAAA	O
ATOM	1790	N	LYS	183	32.213	0.866	73.524	1.00	46.98	AAAA	N
ATOM	1792	CA	LYS	183	32.479	1.064	74.934	1.00	45.26	AAAA	C
ATOM	1793	CB	LYS	183	33.966	1.275	75.185	1.00	48.68	AAAA	C
ATOM	1794	CG	LYS	183	34.865	0.267	74.482	1.00	47.95	AAAA	C
ATOM	1795	CD	LYS	183	36.337	0.734	74.523	1.00	48.06	AAAA	C
ATOM	1796	CE	LYS	183	37.178	-0.208	73.684	1.00	46.78	AAAA	C
ATOM	1797	NZ	LYS	183	38.499	-0.654	74.158	1.00	44.00	AAAA	N
ATOM	1801	C	LYS	183	31.659	2.205	75.477	1.00	48.13	AAAA	C
ATOM	1802	O	LYS	183	31.679	3.305	74.946	1.00	48.84	AAAA	O
ATOM	1803	N	MET	184	31.165	2.014	76.698	1.00	52.59	AAAA	N
ATOM	1805	CA	MET	184	30.388	3.041	77.413	1.00	53.22	AAAA	C
ATOM	1806	CB	MET	184	28.927	2.613	77.537	1.00	54.27	AAAA	C
ATOM	1807	CG	MET	184	27.855	2.95					

ATOM	1812	N	CYS	185	30.796	4.195	79.565	1.00	53.97	AAAAA	N
ATOM	1814	CA	CYS	185	31.342	4.365	80.892	1.00	58.63	AAAAA	C
ATOM	1815	C	CYS	185	30.297	4.320	81.989	1.00	65.16	AAAAA	C
ATOM	1816	O	CYS	185	29.133	4.649	81.761	1.00	65.87	AAAAA	O
ATOM	1817	CB	CYS	185	31.965	5.772	81.000	1.00	60.37	AAAAA	C
ATOM	1818	SG	CYS	185	33.623	5.771	80.312	1.00	60.09	AAAAA	S
ATOM	1819	N	PRO	186	30.688	3.978	83.206	1.00	69.41	AAAAA	N
ATOM	1820	CD	PRO	186	32.066	3.777	83.702	1.00	71.11	AAAAA	C
ATOM	1821	CA	PRO	186	29.717	3.933	84.304	1.00	69.11	AAAAA	C
ATOM	1822	CB	PRO	186	30.523	3.487	85.503	1.00	68.03	AAAAA	C
ATOM	1823	CG	PRO	186	31.910	3.920	85.198	1.00	71.02	AAAAA	C
ATOM	1824	C	PRO	186	29.120	5.320	84.431	1.00	69.47	AAAAA	C
ATOM	1825	O	PRO	186	29.820	6.345	84.507	1.00	65.93	AAAAA	O
ATOM	1826	N	SER	187	27.801	5.367	84.546	1.00	68.78	AAAAA	N
ATOM	1828	CA	SER	187	27.050	6.592	84.750	1.00	69.29	AAAAA	C
ATOM	1829	CB	SER	187	25.594	6.287	85.129	1.00	78.29	AAAAA	C
ATOM	1830	OG	SER	187	25.474	4.935	85.566	1.00	91.78	AAAAA	O
ATOM	1832	C	SER	187	27.630	7.476	85.836	1.00	67.19	AAAAA	C
ATOM	1833	O	SER	187	27.606	8.708	85.803	1.00	63.98	AAAAA	O
ATOM	1834	N	THR	188	28.108	6.853	86.908	1.00	68.20	AAAAA	N
ATOM	1836	CA	THR	188	28.870	7.507	87.963	1.00	68.39	AAAAA	C
ATOM	1837	CB	THR	188	29.805	6.459	88.618	1.00	73.84	AAAAA	C
ATOM	1838	OG1	THR	188	28.943	5.365	89.016	1.00	89.33	AAAAA	O
ATOM	1840	CG2	THR	188	30.605	7.048	89.759	1.00	73.71	AAAAA	C
ATOM	1841	C	THR	188	29.802	8.583	87.429	1.00	67.52	AAAAA	C
ATOM	1842	O	THR	188	29.843	9.739	87.834	1.00	68.30	AAAAA	O
ATOM	1843	N	CYS	189	30.643	8.247	86.446	1.00	63.89	AAAAA	N
ATOM	1845	CA	CYS	189	31.583	9.116	85.817	1.00	57.29	AAAAA	C
ATOM	1846	C	CYS	189	30.951	10.331	85.195	1.00	57.70	AAAAA	C
ATOM	1847	O	CYS	189	31.648	11.327	85.017	1.00	57.56	AAAAA	O
ATOM	1848	CB	CYS	189	32.416	8.372	84.769	1.00	58.67	AAAAA	C
ATOM	1849	SG	CYS	189	33.347	7.001	85.535	1.00	53.46	AAAAA	S
ATOM	1850	N	GLY	190	29.689	10.322	84.806	1.00	56.91	AAAAA	N
ATOM	1852	CA	GLY	190	29.038	11.521	84.323	1.00	57.28	AAAAA	C
ATOM	1853	C	GLY	190	29.444	11.834	82.886	1.00	59.62	AAAAA	C
ATOM	1854	O	GLY	190	29.609	10.932	82.082	1.00	57.91	AAAAA	O
ATOM	1855	N	LYS	191	29.842	13.052	82.624	1.00	62.78	AAAAA	N
ATOM	1857	CA	LYS	191	30.359	13.520	81.364	1.00	67.72	AAAAA	C
ATOM	1858	CB	LYS	191	30.058	15.035	81.214	1.00	72.76	AAAAA	C
ATOM	1859	CG	LYS	191	28.568	15.288	81.002	1.00	84.69	AAAAA	C
ATOM	1860	CD	LYS	191	28.207	16.733	80.723	1.00	90.15	AAAAA	C
ATOM	1861	CE	LYS	191	26.713	16.806	80.471	1.00	91.83	AAAAA	C
ATOM	1862	NZ	LYS	191	26.368	16.182	79.152	1.00	97.62	AAAAA	N
ATOM	1866	C	LYS	191	31.868	13.299	81.270	1.00	70.13	AAAAA	C
ATOM	1867	O	LYS	191	32.486	13.935	80.415	1.00	71.76	AAAAA	O
ATOM	1868	N	ARG	192	32.488	12.441	82.079	1.00	66.29	AAAAA	N
ATOM	1870	CA	ARG	192	33.885	12.171	82.044	1.00	59.95	AAAAA	C
ATOM	1871	CB	ARG	192	34.505	12.070	83.432	1.00	66.58	AAAAA	C
ATOM	1872	CG	ARG	192	34.670	13.400	84.131	1.00	71.59	AAAAA	C
ATOM	1873	CD	ARG	192	34.386	13.330	85.625	1.00	73.91	AAAAA	C
ATOM	1874	NE	ARG	192	35.622	13.280	86.377	1.00	85.74	AAAAA	N
ATOM	1876	CZ	ARG	192	35.968	12.407	87.330	1.00	90.67	AAAAA	C
ATOM	1877	NH1	ARG	192	35.026	11.486	87.600	1.00	88.49	AAAAA	N
ATOM	1880	NH2	ARG	192	37.162	12.463	87.950	1.00	72.95	AAAAA	N
ATOM	1883	C	ARG	192	34.221	10.851	81.337	1.00	58.83	AAAAA	C
ATOM	1884	O	ARG	192	33.336	10.007	81.176	1.00	55.13	AAAAA	O
ATOM	1885	N	ALA	193	35.521	10.795	80.968	1.00	50.19	AAAAA	N
ATOM	1887	CA	ALA	193	35.962	9.557	80.355	1.00	46.24	AAAAA	C
ATOM	1888	CB	ALA	193	37.167	9.921	79.541	1.00	45.15	AAAAA	C
ATOM	1889	C	ALA	193	36.221	8.525	81.451	1.00	48.97	AAAAA	C
ATOM	1890	O	ALA	193	36.220	8.908	82.616	1.00	44.80	AAAAA	O
ATOM	1891	N	CYS	194	36.544	7.304	81.065	1.00	50.30	AAAAA	N
ATOM	1893	CA	CYS	194	36.836	6.302	82.043	1.00	57.50	AAAAA	C
ATOM	1894	C	CYS	194	37.834	5.304	81.448	1.00	61.25	AAAAA	C
ATOM	1895	O	CYS	194	37.952	5.291	80.216	1.00	61.52	AAAAA	O
ATOM	1896	CB	CYS	194	35.510	5.741	82.504	1.00	57.96	AAAAA	C
ATOM	1897	SG	CYS	194	34.785	4.524	81.402	1.00	54.49	AAAAA	S
ATOM	1898	N	THR	195	38.422	4.499	82.311	1.00	58.51	AAAAA	N
ATOM	1900	CA	THR	195	39.462	3.584	81.913	1.00	57.42	AAAAA	C
ATOM	1901	CB	THR	195	40.237	3.142	83.188	1.00	65.73	AAAAA	C
ATOM	1902	OG1	THR	195	40.288	4.248	84.091	1.00	70.15	AAAAA	O
ATOM	1904	CG2	THR	195	41.684	2.864	82.745	1.00	77.91	AAAAA	C
ATOM	1905	C	THR	195	38.857	2.404	81.226	1.00	54.59	AAAAA	C

ATOM	1912	CD	GLU	196	39.235	-0.983	77.670	1.00	83.08	AAAAA	C
ATOM	1913	OE1	GLU	196	38.356	-1.884	77.687	1.00	81.19	AAAAA	O
ATOM	1914	OE2	GLU	196	39.060	0.041	76.939	1.00	82.10	AAAAA	O
ATOM	1915	C	GLU	196	38.382	-0.579	81.467	1.00	63.91	AAAAA	C
ATOM	1916	O	GLU	196	37.690	-1.537	81.159	1.00	63.51	AAAAA	O
ATOM	1917	N	ASN	197	38.666	-0.312	82.739	1.00	67.40	AAAAA	N
ATOM	1919	CA	ASN	197	38.025	-0.947	83.886	1.00	69.21	AAAAA	C
ATOM	1920	CB	ASN	197	39.021	-1.394	84.966	1.00	68.49	AAAAA	C
ATOM	1921	CG	ASN	197	39.722	-2.692	84.672	0.01	69.09	AAAAA	C
ATOM	1922	OD1	ASN	197	40.364	-3.273	85.551	0.01	69.04	AAAAA	O
ATOM	1923	ND2	ASN	197	39.622	-3.183	83.443	0.01	68.97	AAAAA	N
ATOM	1926	C	ASN	197	37.033	0.043	84.486	1.00	69.01	AAAAA	C
ATOM	1927	O	ASN	197	36.845	0.281	85.664	1.00	68.24	AAAAA	O
ATOM	1928	N	ASN	198	36.384	0.795	83.607	1.00	69.91	AAAAA	N
ATOM	1930	CA	ASN	198	35.356	1.734	84.048	1.00	68.48	AAAAA	C
ATOM	1931	CB	ASN	198	34.120	0.880	84.373	1.00	60.12	AAAAA	C
ATOM	1932	CG	ASN	198	33.806	0.095	83.102	1.00	69.29	AAAAA	C
ATOM	1933	OD1	ASN	198	33.475	0.654	82.054	1.00	73.20	AAAAA	O
ATOM	1934	ND2	ASN	198	33.980	-1.206	83.268	1.00	65.34	AAAAA	N
ATOM	1937	C	ASN	198	35.784	2.563	85.228	1.00	64.01	AAAAA	C
ATOM	1938	O	ASN	198	34.992	2.827	86.117	1.00	64.20	AAAAA	O
ATOM	1939	N	GLU	199	36.955	3.164	85.157	1.00	64.75	AAAAA	N
ATOM	1941	CA	GLU	199	37.342	4.054	86.255	1.00	64.64	AAAAA	C
ATOM	1942	CB	GLU	199	38.702	3.624	86.744	1.00	66.11	AAAAA	C
ATOM	1943	CG	GLU	199	38.846	3.717	88.233	1.00	77.15	AAAAA	C
ATOM	1944	CD	GLU	199	39.579	2.532	88.832	1.00	80.24	AAAAA	C
ATOM	1945	OE1	GLU	199	39.385	2.406	90.066	1.00	81.65	AAAAA	O
ATOM	1946	OE2	GLU	199	40.282	1.821	88.079	1.00	77.94	AAAAA	O
ATOM	1947	C	GLU	199	37.314	5.463	85.690	1.00	62.92	AAAAA	C
ATOM	1948	O	GLU	199	37.922	5.676	84.632	1.00	63.62	AAAAA	O
ATOM	1949	N	CYS	200	36.605	6.393	86.313	1.00	56.16	AAAAA	N
ATOM	1951	CA	CYS	200	36.600	7.721	85.740	1.00	55.11	AAAAA	C
ATOM	1952	C	CYS	200	37.978	8.315	85.521	1.00	57.77	AAAAA	C
ATOM	1953	O	CYS	200	38.884	8.058	86.300	1.00	63.79	AAAAA	O
ATOM	1954	CB	CYS	200	35.824	8.664	86.648	1.00	52.70	AAAAA	C
ATOM	1955	SG	CYS	200	34.196	8.100	87.098	1.00	55.85	AAAAA	S
ATOM	1956	N	CYS	201	38.124	9.192	84.540	1.00	54.50	AAAAA	N
ATOM	1958	CA	CYS	201	39.338	9.889	84.202	1.00	48.19	AAAAA	C
ATOM	1959	C	CYS	201	39.236	11.287	84.786	1.00	42.34	AAAAA	C
ATOM	1960	O	CYS	201	38.165	11.704	85.166	1.00	54.32	AAAAA	O
ATOM	1961	CB	CYS	201	39.590	10.070	82.695	1.00	40.90	AAAAA	C
ATOM	1962	SG	CYS	201	39.644	8.597	81.747	1.00	51.42	AAAAA	S
ATOM	1963	N	HIS	202	40.254	12.075	84.675	1.00	39.12	AAAAA	N
ATOM	1965	CA	HIS	202	40.290	13.461	85.128	1.00	41.55	AAAAA	C
ATOM	1966	C	HIS	202	39.284	14.184	84.289	1.00	46.59	AAAAA	C
ATOM	1967	O	HIS	202	39.176	13.851	83.103	1.00	51.64	AAAAA	O
ATOM	1968	CB	HIS	202	41.712	13.952	84.810	1.00	45.20	AAAAA	C
ATOM	1969	CG	HIS	202	41.996	15.330	85.267	1.00	38.71	AAAAA	C
ATOM	1970	ND1	HIS	202	41.501	16.404	84.550	1.00	51.32	AAAAA	N
ATOM	1971	CE1	HIS	202	41.887	17.528	85.178	1.00	47.62	AAAAA	C
ATOM	1972	CD2	HIS	202	42.665	15.813	86.340	1.00	39.59	AAAAA	C
ATOM	1973	NE2	HIS	202	42.563	17.207	86.258	1.00	43.48	AAAAA	N
ATOM	1975	N	PRO	203	38.738	15.293	84.711	1.00	47.74	AAAAA	N
ATOM	1976	CD	PRO	203	38.758	15.840	86.082	1.00	46.97	AAAAA	C
ATOM	1977	CA	PRO	203	37.780	15.987	83.879	1.00	46.44	AAAAA	C
ATOM	1978	CB	PRO	203	37.248	17.107	84.742	1.00	39.47	AAAAA	C
ATOM	1979	CG	PRO	203	38.131	17.210	85.910	1.00	43.37	AAAAA	C
ATOM	1980	C	PRO	203	38.440	16.519	82.607	1.00	53.27	AAAAA	C
ATOM	1981	O	PRO	203	37.698	17.045	81.731	1.00	53.16	AAAAA	O
ATOM	1982	N	GLU	204	39.792	16.535	82.561	1.00	50.34	AAAAA	N
ATOM	1984	CA	GLU	204	40.439	17.139	81.381	1.00	50.52	AAAAA	C
ATOM	1985	CB	GLU	204	41.727	17.891	81.804	1.00	48.58	AAAAA	C
ATOM	1986	CG	GLU	204	41.397	19.251	82.397	1.00	43.74	AAAAA	C
ATOM	1987	CD	GLU	204	40.778	20.282	81.501	1.00	55.26	AAAAA	C
ATOM	1988	OE1	GLU	204	40.766	20.344	80.248	1.00	64.04	AAAAA	O
ATOM	1989	OE2	GLU	204	40.226	21.198	82.141	1.00	57.66	AAAAA	O
ATOM	1990	C	GLU	204	40.718	16.084	80.319	1.00	45.71	AAAAA	C
ATOM	1991	O	GLU	204	41.238	16.405	79.251	1.00	46.56	AAAAA	O
ATOM	1992	N	CYS	205	40.612	14.830	80.735	1.00	42.05	AAAAA	N
ATOM	1994	CA	CYS	205	40.997	13.764	79.838	1.00	45.81	AAAAA	C
ATOM	1995	C	CYS	205	39.892	13.628	78.819	1.00	49.20	AAAAA	C
ATOM	1996	O	CYS	205	38.746	13.920	79.133	1.00	50.34	AAAAA	O
ATOM	1997	CB	CYS	205	41.288	12.491	80.572	1.			

ATOM	2004	CD1	LEU	206	36.879	14.243	74.895	1.00	45.79	AAAAA	C
ATOM	2005	CD2	LEU	206	38.331	15.599	73.420	1.00	50.71	AAAAA	C
ATOM	2006	C	LEU	206	39.310	12.109	75.912	1.00	38.44	AAAAA	C
ATOM	2007	O	LEU	206	40.400	11.568	75.813	1.00	36.59	AAAAA	O
ATOM	2008	N	GLY	207	38.264	11.359	75.681	1.00	42.41	AAAAA	N
ATOM	2010	CA	GLY	207	38.403	10.098	74.978	1.00	40.57	AAAAA	C
ATOM	2011	C	GLY	207	38.466	9.061	76.058	1.00	47.15	AAAAA	C
ATOM	2012	O	GLY	207	37.668	8.102	76.057	1.00	45.04	AAAAA	O
ATOM	2013	N	SER	208	39.622	9.079	76.760	1.00	50.36	AAAAA	N
ATOM	2015	CA	SER	208	39.832	7.898	77.660	1.00	48.27	AAAAA	C
ATOM	2016	CB	SER	208	39.909	6.631	76.787	1.00	35.77	AAAAA	C
ATOM	2017	OG	SER	208	40.600	5.597	77.461	1.00	61.34	AAAAA	O
ATOM	2019	C	SER	208	41.144	8.068	78.377	1.00	49.17	AAAAA	C
ATOM	2020	O	SER	208	41.781	9.084	78.163	1.00	48.24	AAAAA	O
ATOM	2021	N	CYS	209	41.599	7.123	79.189	1.00	52.04	AAAAA	N
ATOM	2023	CA	CYS	209	42.824	7.307	79.964	1.00	55.98	AAAAA	C
ATOM	2024	C	CYS	209	43.453	6.035	80.484	1.00	57.41	AAAAA	C
ATOM	2025	O	CYS	209	42.862	4.963	80.423	1.00	58.33	AAAAA	O
ATOM	2026	CB	CYS	209	42.629	8.258	81.146	1.00	52.51	AAAAA	C
ATOM	2027	SG	CYS	209	41.380	7.602	82.261	1.00	58.22	AAAAA	S
ATOM	2028	N	SER	210	44.734	6.145	80.883	1.00	59.37	AAAAA	N
ATOM	2030	CA	SER	210	45.506	4.950	81.318	1.00	58.10	AAAAA	C
ATOM	2031	CB	SER	210	47.022	5.083	81.105	1.00	55.07	AAAAA	C
ATOM	2032	OG	SER	210	47.546	6.204	81.818	1.00	64.49	AAAAA	O
ATOM	2034	C	SER	210	45.331	4.713	82.826	1.00	56.34	AAAAA	C
ATOM	2035	O	SER	210	45.529	3.614	83.326	1.00	54.42	AAAAA	O
ATOM	2036	N	ALA	211	45.105	5.806	83.548	1.00	52.79	AAAAA	N
ATOM	2038	CA	ALA	211	44.980	5.684	85.004	1.00	56.60	AAAAA	C
ATOM	2039	CB	ALA	211	46.333	5.926	85.649	1.00	63.41	AAAAA	C
ATOM	2040	C	ALA	211	43.962	6.747	85.395	1.00	56.58	AAAAA	C
ATOM	2041	O	ALA	211	43.957	7.792	84.711	1.00	50.78	AAAAA	O
ATOM	2042	N	PRO	212	43.117	6.416	86.359	1.00	55.93	AAAAA	N
ATOM	2043	CD	PRO	212	43.042	5.166	87.115	1.00	55.86	AAAAA	C
ATOM	2044	CA	PRO	212	41.951	7.257	86.575	1.00	55.50	AAAAA	C
ATOM	2045	CB	PRO	212	41.104	6.470	87.556	1.00	59.65	AAAAA	C
ATOM	2046	CG	PRO	212	42.021	5.483	88.175	1.00	54.56	AAAAA	C
ATOM	2047	C	PRO	212	42.409	8.535	87.177	1.00	53.64	AAAAA	C
ATOM	2048	O	PRO	212	43.611	8.725	87.393	1.00	57.48	AAAAA	O
ATOM	2049	N	ALA	213	41.537	9.492	87.347	1.00	53.87	AAAAA	N
ATOM	2051	CA	ALA	213	41.912	10.710	88.057	1.00	59.41	AAAAA	C
ATOM	2052	CB	ALA	213	41.783	10.255	89.541	1.00	66.40	AAAAA	C
ATOM	2053	C	ALA	213	43.289	11.300	87.907	1.00	61.40	AAAAA	C
ATOM	2054	O	ALA	213	43.728	12.202	88.652	1.00	60.03	AAAAA	O
ATOM	2055	N	ASN	214	44.068	10.999	86.899	1.00	64.80	AAAAA	N
ATOM	2057	CA	ASN	214	45.366	11.551	86.596	1.00	63.36	AAAAA	C
ATOM	2063	C	ASN	214	45.300	12.284	85.251	1.00	61.56	AAAAA	C
ATOM	2064	O	ASN	214	45.198	11.794	84.117	1.00	58.38	AAAAA	O
ATOM	2058	CB	ASN	214	46.336	10.379	86.608	1.00	67.32	AAAAA	C
ATOM	2059	CG	ASN	214	47.697	10.896	86.362	1.00	75.48	AAAAA	C
ATOM	2060	OD1	ASN	214	48.254	11.105	85.302	1.00	83.64	AAAAA	O
ATOM	2061	ND2	ASN	214	48.513	11.170	87.427	1.00	90.05	AAAAA	N
ATOM	2065	N	ASP	215	45.666	13.565	85.305	1.00	59.78	AAAAA	N
ATOM	2067	CA	ASP	215	45.618	14.432	84.143	1.00	56.47	AAAAA	C
ATOM	2068	CB	ASP	215	45.430	15.926	84.446	1.00	40.19	AAAAA	C
ATOM	2069	CG	ASP	215	46.671	16.543	84.986	1.00	56.36	AAAAA	C
ATOM	2070	OD1	ASP	215	46.590	17.699	85.473	1.00	56.17	AAAAA	O
ATOM	2071	OD2	ASP	215	47.766	15.926	84.941	1.00	60.51	AAAAA	O
ATOM	2072	C	ASP	215	46.818	14.315	83.221	1.00	53.78	AAAAA	C
ATOM	2073	O	ASP	215	46.998	15.148	82.322	1.00	53.58	AAAAA	O
ATOM	2074	N	THR	216	47.719	13.425	83.511	1.00	50.87	AAAAA	N
ATOM	2076	CA	THR	216	48.883	13.114	82.734	1.00	45.76	AAAAA	C
ATOM	2077	CB	THR	216	50.201	13.176	83.529	1.00	53.46	AAAAA	C
ATOM	2078	OG1	THR	216	50.403	11.977	84.335	1.00	45.14	AAAAA	O
ATOM	2080	CG2	THR	216	50.436	14.314	84.518	1.00	41.38	AAAAA	C
ATOM	2081	C	THR	216	48.681	11.712	82.158	1.00	48.34	AAAAA	C
ATOM	2082	O	THR	216	49.596	11.282	81.444	1.00	47.49	AAAAA	O
ATOM	2083	N	ALA	217	47.559	11.057	82.476	1.00	49.65	AAAAA	N
ATOM	2085	CA	ALA	217	47.259	9.760	81.845	1.00	51.83	AAAAA	C
ATOM	2086	CB	ALA	217	46.908	8.775	82.943	1.00	52.62	AAAAA	C
ATOM	2087	C	ALA	217	46.207	9.747	80.709	1.00	50.60	AAAAA	C
ATOM	2088	O	ALA	217	45.775	8.632	80.335	1.00	49.13	AAAAA	O
ATOM	2089	N	CYS	218	45.744	10.905	80.226	1.00	43.56	AAAAA	N
ATOM	2091	CA	CYS	218	44.802	11.030	79.157	1.00	48.09	AAAAA	C

ATOM	2098	CA	VAL	219	44.575	9.547	75.654	1.00	35.22	AAAA	C
ATOM	2099	CB	VAL	219	43.693	8.427	75.242	1.00	32.26	AAAA	C
ATOM	2100	CG1	VAL	219	43.952	7.873	73.886	1.00	36.19	AAAA	C
ATOM	2101	CG2	VAL	219	43.811	7.144	76.071	1.00	45.51	AAAA	C
ATOM	2102	C	VAL	219	44.453	10.750	74.735	1.00	32.06	AAAA	C
ATOM	2103	O	VAL	219	45.303	10.897	73.874	1.00	42.27	AAAA	O
ATOM	2104	N	ALA	220	43.728	11.759	75.187	1.00	24.24	AAAA	N
ATOM	2106	CA	ALA	220	43.630	12.985	74.385	1.00	27.99	AAAA	C
ATOM	2107	CB	ALA	220	42.536	12.919	73.331	1.00	28.42	AAAA	C
ATOM	2108	C	ALA	220	43.292	14.071	75.390	1.00	29.21	AAAA	C
ATOM	2109	O	ALA	220	42.846	13.604	76.455	1.00	37.88	AAAA	O
ATOM	2110	N	CYS	221	43.285	15.334	75.058	1.00	30.27	AAAA	N
ATOM	2112	CA	CYS	221	42.753	16.382	75.875	1.00	35.55	AAAA	C
ATOM	2113	C	CYS	221	41.460	17.055	75.452	1.00	47.06	AAAA	C
ATOM	2114	O	CYS	221	41.265	17.598	74.368	1.00	49.57	AAAA	O
ATOM	2115	CB	CYS	221	43.804	17.478	76.063	1.00	47.45	AAAA	C
ATOM	2116	SG	CYS	221	45.494	16.935	76.538	1.00	47.06	AAAA	S
ATOM	2117	N	ARG	222	40.503	17.133	76.396	1.00	51.47	AAAA	N
ATOM	2119	CA	ARG	222	39.281	17.906	76.338	1.00	51.86	AAAA	C
ATOM	2120	CB	ARG	222	38.647	18.074	77.712	1.00	54.53	AAAA	C
ATOM	2121	CG	ARG	222	37.314	18.687	77.854	1.00	45.56	AAAA	C
ATOM	2122	CD	ARG	222	36.538	18.338	79.087	1.00	54.45	AAAA	C
ATOM	2123	NE	ARG	222	36.272	16.947	79.269	1.00	65.53	AAAA	N
ATOM	2125	CZ	ARG	222	35.534	16.080	78.617	1.00	67.60	AAAA	C
ATOM	2126	NH1	ARG	222	34.925	16.599	77.533	1.00	70.26	AAAA	N
ATOM	2129	NH2	ARG	222	35.342	14.780	78.901	1.00	54.11	AAAA	N
ATOM	2132	C	ARG	222	39.562	19.286	75.740	1.00	50.66	AAAA	C
ATOM	2133	O	ARG	222	38.737	19.845	75.009	1.00	58.34	AAAA	O
ATOM	2134	N	HIS	223	40.556	19.981	76.190	1.00	45.65	AAAA	N
ATOM	2136	CA	HIS	223	40.988	21.291	75.821	1.00	46.93	AAAA	C
ATOM	2137	CB	HIS	223	41.057	22.251	77.011	1.00	49.51	AAAA	C
ATOM	2138	CG	HIS	223	39.710	22.344	77.647	1.00	58.83	AAAA	C
ATOM	2139	CD2	HIS	223	38.820	23.360	77.556	1.00	61.08	AAAA	C
ATOM	2140	ND1	HIS	223	39.082	21.388	78.425	1.00	63.28	AAAA	N
ATOM	2142	CE1	HIS	223	37.881	21.815	78.759	1.00	58.01	AAAA	C
ATOM	2143	NE2	HIS	223	37.681	23.010	78.232	1.00	48.56	AAAA	N
ATOM	2145	C	HIS	223	42.363	21.260	75.122	1.00	50.78	AAAA	C
ATOM	2146	O	HIS	223	42.506	20.753	74.003	1.00	47.43	AAAA	O
ATOM	2147	N	TYR	224	43.359	21.847	75.769	1.00	49.20	AAAA	N
ATOM	2149	CA	TYR	224	44.712	21.992	75.259	1.00	48.17	AAAA	C
ATOM	2150	CB	TYR	224	45.144	23.430	75.426	1.00	44.07	AAAA	C
ATOM	2151	CG	TYR	224	44.318	24.234	74.417	1.00	51.77	AAAA	C
ATOM	2152	CD1	TYR	224	43.193	24.869	74.904	1.00	48.94	AAAA	C
ATOM	2153	CE1	TYR	224	42.401	25.633	74.089	1.00	48.41	AAAA	C
ATOM	2154	CD2	TYR	224	44.623	24.358	73.065	1.00	54.82	AAAA	C
ATOM	2155	CE2	TYR	224	43.847	25.131	72.233	1.00	56.09	AAAA	C
ATOM	2156	CZ	TYR	224	42.739	25.745	72.766	1.00	54.23	AAAA	C
ATOM	2157	OH	TYR	224	41.915	26.522	72.017	1.00	61.70	AAAA	O
ATOM	2159	C	TYR	224	45.725	21.095	75.892	1.00	48.19	AAAA	C
ATOM	2160	O	TYR	224	45.776	20.913	77.111	1.00	55.75	AAAA	O
ATOM	2161	N	TYR	225	46.584	20.514	75.077	1.00	48.79	AAAA	N
ATOM	2163	CA	TYR	225	47.655	19.653	75.555	1.00	43.02	AAAA	C
ATOM	2164	CB	TYR	225	48.020	18.639	74.548	1.00	42.32	AAAA	C
ATOM	2165	CG	TYR	225	49.286	17.926	74.954	1.00	46.95	AAAA	C
ATOM	2166	CD1	TYR	225	49.299	16.858	75.817	1.00	43.57	AAAA	C
ATOM	2167	CE1	TYR	225	50.450	16.221	76.173	1.00	47.26	AAAA	C
ATOM	2168	CD2	TYR	225	50.487	18.407	74.421	1.00	52.82	AAAA	C
ATOM	2169	CE2	TYR	225	51.656	17.791	74.781	1.00	53.94	AAAA	C
ATOM	2170	CZ	TYR	225	51.639	16.707	75.644	1.00	52.31	AAAA	C
ATOM	2171	OH	TYR	225	52.886	16.186	75.905	1.00	50.71	AAAA	O
ATOM	2173	C	TYR	225	48.872	20.507	75.793	1.00	47.13	AAAA	C
ATOM	2174	O	TYR	225	49.080	21.514	75.150	1.00	53.97	AAAA	O
ATOM	2175	N	TYR	226	49.634	20.253	76.821	1.00	56.84	AAAA	N
ATOM	2177	CA	TYR	226	50.814	21.001	77.172	1.00	56.83	AAAA	C
ATOM	2178	CB	TYR	226	50.455	22.343	77.785	1.00	59.51	AAAA	C
ATOM	2179	CG	TYR	226	51.741	23.126	77.941	1.00	65.45	AAAA	C
ATOM	2180	CD1	TYR	226	52.121	23.557	79.197	1.00	69.12	AAAA	C
ATOM	2181	CE1	TYR	226	53.289	24.275	79.400	1.00	70.77	AAAA	C
ATOM	2182	CD2	TYR	226	52.580	23.409	76.864	1.00	69.38	AAAA	C
ATOM	2183	CE2	TYR	226	53.758	24.118	77.020	1.00	70.94	AAAA	C
ATOM	2184	CZ	TYR	226	54.099	24.549	78.301	1.00	72.96	AAAA	C
ATOM	2185	OH	TYR	226	55.267	25.254	78.435	1.00	70.84	AAAA	O
ATOM	2187	C	TYR	226	51.784	20.356	78.165	1.00	57.55</td		

ATOM	2194	O	ALA	227	53.663	18.218	80.413	1.00	49.63	AAAAA O
ATOM	2195	N	GLY	228	53.076	17.360	78.393	1.00	50.68	AAAAA N
ATOM	2197	CA	GLY	228	52.585	16.135	79.028	1.00	49.02	AAAAA C
ATOM	2198	C	GLY	228	51.312	16.330	79.861	1.00	51.61	AAAAA C
ATOM	2199	O	GLY	228	51.028	15.538	80.776	1.00	51.10	AAAAA O
ATOM	2200	N	VAL	229	50.643	17.495	79.791	1.00	47.09	AAAAA N
ATOM	2202	CA	VAL	229	49.489	17.671	80.635	1.00	51.11	AAAAA C
ATOM	2203	CB	VAL	229	49.908	18.610	81.774	1.00	56.52	AAAAA C
ATOM	2204	CG1	VAL	229	48.627	18.896	82.566	1.00	38.39	AAAAA C
ATOM	2205	CG2	VAL	229	51.002	18.035	82.682	1.00	50.16	AAAAA C
ATOM	2206	C	VAL	229	48.255	18.173	79.873	1.00	51.37	AAAAA C
ATOM	2207	O	VAL	229	48.344	19.279	79.309	1.00	53.71	AAAAA O
ATOM	2208	N	CYS	230	47.100	17.518	80.036	1.00	42.21	AAAAA N
ATOM	2210	CA	CYS	230	45.881	18.117	79.471	1.00	40.32	AAAAA C
ATOM	2211	C	CYS	230	45.456	19.350	80.228	1.00	38.42	AAAAA C
ATOM	2212	O	CYS	230	44.964	19.248	81.321	1.00	41.62	AAAAA O
ATOM	2213	CB	CYS	230	44.746	17.132	79.370	1.00	31.54	AAAAA C
ATOM	2214	SG	CYS	230	45.149	15.753	78.266	1.00	43.61	AAAAA S
ATOM	2215	N	VAL	231	45.637	20.534	79.731	1.00	39.83	AAAAA N
ATOM	2217	CA	VAL	231	45.445	21.769	80.462	1.00	46.57	AAAAA C
ATOM	2218	CB	VAL	231	46.618	22.736	80.088	1.00	50.99	AAAAA C
ATOM	2219	CG1	VAL	231	46.798	23.878	81.053	1.00	50.41	AAAAA C
ATOM	2220	CG2	VAL	231	47.838	21.913	80.506	1.00	44.95	AAAAA C
ATOM	2221	C	VAL	231	44.111	22.321	80.057	1.00	52.59	AAAAA C
ATOM	2222	O	VAL	231	43.599	22.183	78.936	1.00	55.30	AAAAA O
ATOM	2223	N	PRO	232	43.482	23.105	80.913	1.00	54.28	AAAAA N
ATOM	2224	CD	PRO	232	43.830	23.385	82.320	1.00	54.25	AAAAA C
ATOM	2225	CA	PRO	232	42.153	23.625	80.575	1.00	54.39	AAAAA C
ATOM	2226	CB	PRO	232	41.537	23.877	81.928	1.00	53.73	AAAAA C
ATOM	2227	CG	PRO	232	42.683	24.287	82.765	1.00	55.00	AAAAA C
ATOM	2228	C	PRO	232	42.361	24.913	79.795	1.00	56.37	AAAAA C
ATOM	2229	O	PRO	232	41.498	25.482	79.137	1.00	55.79	AAAAA O
ATOM	2230	N	ALA	233	43.615	25.400	79.901	1.00	54.76	AAAAA N
ATOM	2232	CA	ALA	233	43.998	26.569	79.124	1.00	49.93	AAAAA C
ATOM	2233	CB	ALA	233	43.440	27.807	79.746	1.00	35.43	AAAAA C
ATOM	2234	C	ALA	233	45.502	26.662	78.974	1.00	49.79	AAAAA C
ATOM	2235	O	ALA	233	46.195	25.879	79.616	1.00	51.41	AAAAA O
ATOM	2236	N	CYS	234	45.984	27.508	78.072	1.00	45.07	AAAAA N
ATOM	2238	CA	CYS	234	47.430	27.518	77.907	1.00	48.63	AAAAA C
ATOM	2239	C	CYS	234	48.001	28.340	79.076	1.00	50.93	AAAAA C
ATOM	2240	O	CYS	234	47.650	29.513	79.250	1.00	47.57	AAAAA O
ATOM	2241	CB	CYS	234	47.816	28.034	76.511	1.00	43.10	AAAAA C
ATOM	2242	SG	CYS	234	47.608	26.789	75.226	1.00	43.04	AAAAA S
ATOM	2243	N	PRO	235	49.127	27.853	79.599	1.00	49.55	AAAAA N
ATOM	2244	CD	PRO	235	49.692	26.557	79.207	1.00	48.75	AAAAA C
ATOM	2245	CA	PRO	235	49.911	28.569	80.599	1.00	51.69	AAAAA C
ATOM	2246	CB	PRO	235	50.984	27.581	80.975	1.00	50.80	AAAAA C
ATOM	2247	CG	PRO	235	50.912	26.417	80.077	1.00	50.06	AAAAA C
ATOM	2248	C	PRO	235	50.487	29.852	80.050	1.00	57.11	AAAAA C
ATOM	2249	O	PRO	235	50.848	29.957	78.870	1.00	59.60	AAAAA O
ATOM	2250	N	PRO	236	50.676	30.875	80.887	1.00	59.85	AAAAA N
ATOM	2251	CD	PRO	236	50.405	30.822	82.363	1.00	55.85	AAAAA C
ATOM	2252	CA	PRO	236	51.323	32.143	80.493	1.00	52.27	AAAAA C
ATOM	2253	CB	PRO	236	51.695	32.814	81.826	1.00	53.62	AAAAA C
ATOM	2254	CG	PRO	236	50.652	32.277	82.754	1.00	56.73	AAAAA C
ATOM	2255	C	PRO	236	52.545	31.886	79.671	1.00	44.21	AAAAA C
ATOM	2256	O	PRO	236	53.218	30.892	79.928	1.00	43.40	AAAAA O
ATOM	2257	N	ASN	237	52.837	32.757	78.716	1.00	46.54	AAAAA N
ATOM	2259	CA	ASN	237	53.895	32.623	77.716	1.00	45.94	AAAAA C
ATOM	2260	CB	ASN	237	55.258	32.653	78.456	1.00	58.65	AAAAA C
ATOM	2261	CG	ASN	237	55.357	33.855	79.371	1.00	58.51	AAAAA C
ATOM	2262	OD1	ASN	237	56.044	33.783	80.379	1.00	72.25	AAAAA O
ATOM	2263	ND2	ASN	237	54.631	34.910	79.051	1.00	62.99	AAAAA N
ATOM	2266	C	ASN	237	53.897	31.425	76.788	1.00	46.87	AAAAA C
ATOM	2267	O	ASN	237	54.962	30.935	76.326	1.00	54.50	AAAAA O
ATOM	2268	N	THR	238	52.817	30.657	76.692	1.00	42.91	AAAAA N
ATOM	2270	CA	THR	238	52.617	29.567	75.780	1.00	40.20	AAAAA C
ATOM	2271	CB	THR	238	52.461	28.248	76.466	1.00	42.62	AAAAA C
ATOM	2272	OG1	THR	238	51.227	28.343	77.237	1.00	50.88	AAAAA O
ATOM	2274	CG2	THR	238	53.552	27.886	77.424	1.00	34.84	AAAAA C
ATOM	2275	C	THR	238	51.279	29.875	75.078	1.00	42.59	AAAAA C
ATOM	2276	O	THR	238	50.669	30.864	75.509	1.00	42.51	AAAAA O
ATOM	2277	N	TYR	239	51.051	29.488	73.832	1.00	42.62	AAAAA N
ATOM	2279	CA	TYR	239	49.949	29.959	73.024	1.00	41.87	AAAAA C
ATOM	2280	CB	TYR	239	50.457	30.907	71.931	1.00	44.86	AAAAA C
ATOM	2281	CG	TYR	239	51.099	32.125</td				

ATOM	2284	CD2	TYR	239	50.376	33.230	72.923	1.00	44.15	AAAA	C
ATOM	2285	CE2	TYR	239	50.972	34.310	73.536	1.00	46.22	AAAA	C
ATOM	2286	CZ	TYR	239	52.339	34.243	73.779	1.00	50.49	AAAA	C
ATOM	2287	OH	TYR	239	53.013	35.289	74.387	1.00	55.47	AAAA	O
ATOM	2289	C	TYR	239	49.232	28.813	72.315	1.00	45.54	AAAA	C
ATOM	2290	O	TYR	239	49.922	27.810	72.021	1.00	46.66	AAAA	O
ATOM	2291	N	ARG	240	47.895	28.990	72.126	1.00	40.62	AAAA	N
ATOM	2293	CA	ARG	240	47.177	27.892	71.426	1.00	38.78	AAAA	C
ATOM	2294	CB	ARG	240	45.675	28.127	71.452	1.00	39.77	AAAA	C
ATOM	2295	CG	ARG	240	45.116	28.944	72.588	1.00	43.37	AAAA	C
ATOM	2296	CD	ARG	240	43.573	28.957	72.683	1.00	38.60	AAAA	C
ATOM	2297	NE	ARG	240	43.114	29.683	71.455	1.00	53.98	AAAA	N
ATOM	2299	CZ	ARG	240	43.123	31.015	71.530	1.00	48.07	AAAA	C
ATOM	2300	NH1	ARG	240	43.513	31.562	72.668	1.00	47.65	AAAA	N
ATOM	2303	NH2	ARG	240	42.788	31.778	70.533	1.00	51.03	AAAA	N
ATOM	2306	C	ARG	240	47.627	27.737	69.979	1.00	31.72	AAAA	C
ATOM	2307	O	ARG	240	47.937	28.730	69.302	1.00	32.37	AAAA	O
ATOM	2308	N	PHE	241	47.779	26.542	69.549	1.00	27.95	AAAA	N
ATOM	2310	CA	PHE	241	48.182	26.269	68.183	1.00	30.41	AAAA	C
ATOM	2311	CB	PHE	241	49.678	25.940	68.151	1.00	34.83	AAAA	C
ATOM	2312	CG	PHE	241	50.235	25.653	66.773	1.00	26.84	AAAA	C
ATOM	2313	CD1	PHE	241	50.165	26.567	65.753	1.00	25.31	AAAA	C
ATOM	2314	CD2	PHE	241	50.785	24.417	66.573	1.00	27.38	AAAA	C
ATOM	2315	CE1	PHE	241	50.676	26.232	64.509	1.00	37.24	AAAA	C
ATOM	2316	CE2	PHE	241	51.294	24.101	65.320	1.00	38.45	AAAA	C
ATOM	2317	CZ	PHE	241	51.281	25.010	64.281	1.00	21.17	AAAA	C
ATOM	2318	C	PHE	241	47.382	25.089	67.621	1.00	35.77	AAAA	C
ATOM	2319	O	PHE	241	47.543	24.013	68.186	1.00	36.77	AAAA	O
ATOM	2320	N	GLU	242	46.738	25.301	66.468	1.00	32.30	AAAA	N
ATOM	2322	CA	GLU	242	45.964	24.269	65.805	1.00	35.43	AAAA	C
ATOM	2323	CB	GLU	242	46.953	23.144	65.472	1.00	37.98	AAAA	C
ATOM	2324	CG	GLU	242	47.867	23.415	64.314	1.00	38.63	AAAA	C
ATOM	2325	CD	GLU	242	47.207	23.965	63.075	1.00	39.27	AAAA	C
ATOM	2326	OE1	GLU	242	46.380	23.205	62.517	1.00	42.79	AAAA	O
ATOM	2327	OE2	GLU	242	47.354	25.109	62.626	1.00	36.36	AAAA	O
ATOM	2328	C	GLU	242	44.752	23.771	66.600	1.00	34.36	AAAA	C
ATOM	2329	O	GLU	242	44.390	22.611	66.511	1.00	28.53	AAAA	O
ATOM	2330	N	GLY	243	44.135	24.589	67.449	1.00	36.94	AAAA	N
ATOM	2332	CA	GLY	243	43.048	24.154	68.303	1.00	34.57	AAAA	C
ATOM	2333	C	GLY	243	43.428	23.107	69.319	1.00	37.76	AAAA	C
ATOM	2334	O	GLY	243	42.474	22.473	69.746	1.00	43.00	AAAA	O
ATOM	2335	N	TRP	244	44.637	22.636	69.611	1.00	39.53	AAAA	N
ATOM	2337	CA	TRP	244	44.797	21.536	70.566	1.00	40.85	AAAA	C
ATOM	2338	CB	TRP	244	44.774	20.271	69.764	1.00	26.76	AAAA	C
ATOM	2339	CG	TRP	244	46.012	19.885	69.028	1.00	43.19	AAAA	C
ATOM	2340	CD2	TRP	244	47.019	18.983	69.498	1.00	39.55	AAAA	C
ATOM	2341	CE2	TRP	244	47.998	18.906	68.489	1.00	36.50	AAAA	C
ATOM	2342	CE3	TRP	244	47.186	18.254	70.692	1.00	32.18	AAAA	C
ATOM	2343	CD1	TRP	244	46.424	20.308	67.779	1.00	43.37	AAAA	C
ATOM	2344	NE1	TRP	244	47.595	19.727	67.469	1.00	38.89	AAAA	N
ATOM	2346	CZ2	TRP	244	49.150	18.128	68.620	1.00	39.01	AAAA	C
ATOM	2347	CZ3	TRP	244	48.336	17.478	70.815	1.00	43.98	AAAA	C
ATOM	2348	CH2	TRP	244	49.322	17.425	69.784	1.00	42.50	AAAA	C
ATOM	2349	C	TRP	244	45.998	21.517	71.509	1.00	42.98	AAAA	C
ATOM	2350	O	TRP	244	46.253	20.501	72.146	1.00	42.70	AAAA	O
ATOM	2351	N	ARG	245	46.888	22.485	71.435	1.00	44.16	AAAA	N
ATOM	2353	CA	ARG	245	48.168	22.472	72.095	1.00	46.47	AAAA	C
ATOM	2354	CB	ARG	245	49.203	21.602	71.367	1.00	47.30	AAAA	C
ATOM	2355	CG	ARG	245	49.885	22.309	70.203	1.00	48.97	AAAA	C
ATOM	2356	CD	ARG	245	51.129	21.552	69.819	1.00	39.28	AAAA	C
ATOM	2357	NE	ARG	245	51.586	21.665	68.444	1.00	50.86	AAAA	N
ATOM	2359	CZ	ARG	245	52.629	21.044	67.895	1.00	46.73	AAAA	C
ATOM	2360	NH1	ARG	245	53.344	20.236	68.653	1.00	50.15	AAAA	N
ATOM	2363	NH2	ARG	245	53.072	21.126	66.638	1.00	41.69	AAAA	N
ATOM	2366	C	ARG	245	48.771	23.863	72.271	1.00	46.01	AAAA	C
ATOM	2367	O	ARG	245	48.394	24.793	71.541	1.00	47.44	AAAA	O
ATOM	2368	N	CYS	246	49.625	23.881	73.317	1.00	42.08	AAAA	N
ATOM	2370	CA	CYS	246	50.246	25.199	73.628	1.00	43.48	AAAA	C
ATOM	2371	C	CYS	246	51.695	25.217	73.183	1.00	43.38	AAAA	C
ATOM	2372	O	CYS	246	52.476	24.239	73.320	1.00	42.51	AAAA	O
ATOM	2373	CB	CYS	246	50.102	25.392	75.138	1.00	48.91	AAAA	C
ATOM	2374	SG	CYS	246	48.386	25.049	75.797	1.00	43.68	AAAA	S
ATOM	2375	N	VAL	247	52.121	26					

ATOM	2382	O	VAL	247	53.230	28.770	72.540	1.00	38.80	AAAAA	O
ATOM	2383	N	ASP	248	55.291	27.820	72.711	1.00	45.21	AAAAA	N
ATOM	2385	CA	ASP	248	55.895	29.115	73.098	1.00	40.19	AAAAA	C
ATOM	2386	CB	ASP	248	57.091	28.946	73.953	1.00	42.63	AAAAA	C
ATOM	2387	CG	ASP	248	58.126	27.997	73.394	1.00	58.81	AAAAA	C
ATOM	2388	OD1	ASP	248	59.067	27.795	74.187	1.00	53.06	AAAAA	O
ATOM	2389	OD2	ASP	248	58.167	27.395	72.313	1.00	69.51	AAAAA	C
ATOM	2390	C	ASP	248	56.315	29.883	71.839	1.00	36.99	AAAAA	C
ATOM	2391	O	ASP	248	56.292	29.288	70.772	1.00	39.70	AAAAA	O
ATOM	2392	N	ARG	249	56.545	31.163	71.918	1.00	30.72	AAAAA	N
ATOM	2394	CA	ARG	249	56.950	32.057	70.906	1.00	36.17	AAAAA	C
ATOM	2395	CB	ARG	249	57.223	33.485	71.491	1.00	21.29	AAAAA	C
ATOM	2396	CG	ARG	249	57.594	34.424	70.326	1.00	24.96	AAAAA	C
ATOM	2397	CD	ARG	249	57.814	35.811	70.843	1.00	21.23	AAAAA	C
ATOM	2398	NE	ARG	249	56.658	36.150	71.689	1.00	39.75	AAAAA	N
ATOM	2400	CZ	ARG	249	55.632	36.823	71.101	1.00	39.35	AAAAA	C
ATOM	2401	NH1	ARG	249	55.642	37.118	69.801	1.00	25.41	AAAAA	N
ATOM	2404	NH2	ARG	249	54.641	37.118	71.946	1.00	44.04	AAAAA	N
ATOM	2407	C	ARG	249	58.134	31.685	70.010	1.00	40.63	AAAAA	C
ATOM	2408	O	ARG	249	58.086	31.923	68.797	1.00	44.79	AAAAA	O
ATOM	2409	N	ASP	250	59.149	30.974	70.468	1.00	41.87	AAAAA	N
ATOM	2411	CA	ASP	250	60.287	30.739	69.606	1.00	46.90	AAAAA	C
ATOM	2412	CB	ASP	250	61.740	30.726	70.154	1.00	53.11	AAAAA	C
ATOM	2413	CG	ASP	250	62.421	32.122	70.081	1.00	71.49	AAAAA	C
ATOM	2414	OD1	ASP	250	63.124	32.682	69.176	1.00	58.53	AAAAA	O
ATOM	2415	OD2	ASP	250	62.272	32.928	71.071	1.00	70.30	AAAAA	O
ATOM	2416	C	ASP	250	59.881	29.536	68.771	1.00	41.22	AAAAA	C
ATOM	2417	O	ASP	250	60.291	29.443	67.616	1.00	39.06	AAAAA	O
ATOM	2418	N	PHE	251	59.116	28.609	69.299	1.00	36.13	AAAAA	N
ATOM	2420	CA	PHE	251	58.457	27.601	68.489	1.00	34.88	AAAAA	C
ATOM	2421	CB	PHE	251	57.468	26.746	69.256	1.00	29.82	AAAAA	C
ATOM	2422	CG	PHE	251	56.701	25.801	68.385	1.00	41.50	AAAAA	C
ATOM	2423	CD1	PHE	251	57.101	24.479	68.263	1.00	30.66	AAAAA	C
ATOM	2424	CD2	PHE	251	55.559	26.213	67.686	1.00	37.78	AAAAA	C
ATOM	2425	CE1	PHE	251	56.414	23.597	67.424	1.00	29.30	AAAAA	C
ATOM	2426	CE2	PHE	251	54.847	25.372	66.856	1.00	36.09	AAAAA	C
ATOM	2427	CZ	PHE	251	55.294	24.070	66.715	1.00	36.21	AAAAA	C
ATOM	2428	C	PHE	251	57.624	28.290	67.338	1.00	39.28	AAAAA	C
ATOM	2429	O	PHE	251	57.811	28.010	66.144	1.00	30.27	AAAAA	O
ATOM	2430	N	CYS	252	56.734	29.225	67.713	1.00	35.13	AAAAA	N
ATOM	2432	CA	CYS	252	55.895	29.870	66.728	1.00	38.80	AAAAA	C
ATOM	2433	C	CYS	252	56.827	30.598	65.747	1.00	44.73	AAAAA	C
ATOM	2434	O	CYS	252	56.552	30.534	64.536	1.00	43.20	AAAAA	O
ATOM	2435	CB	CYS	252	54.903	30.778	67.379	1.00	35.65	AAAAA	C
ATOM	2436	SG	CYS	252	53.562	31.544	66.459	1.00	39.03	AAAAA	S
ATOM	2437	N	ALA	253	57.872	31.256	66.285	1.00	41.53	AAAAA	N
ATOM	2439	CA	ALA	253	58.687	32.071	65.415	1.00	40.39	AAAAA	C
ATOM	2440	CB	ALA	253	59.529	33.088	66.172	1.00	36.07	AAAAA	C
ATOM	2441	C	ALA	253	59.551	31.167	64.539	1.00	42.88	AAAAA	C
ATOM	2442	O	ALA	253	60.147	31.735	63.640	1.00	47.42	AAAAA	O
ATOM	2443	N	ASN	254	59.657	29.859	64.700	1.00	38.75	AAAAA	N
ATOM	2445	CA	ASN	254	60.546	29.073	63.928	1.00	42.94	AAAAA	C
ATOM	2446	CB	ASN	254	61.667	28.497	64.847	1.00	48.09	AAAAA	C
ATOM	2447	CG	ASN	254	62.696	29.635	65.031	1.00	49.54	AAAAA	C
ATOM	2448	OD1	ASN	254	63.468	29.840	64.081	1.00	61.38	AAAAA	O
ATOM	2449	ND2	ASN	254	62.607	30.321	66.144	1.00	48.38	AAAAA	N
ATOM	2452	C	ASN	254	59.907	27.959	63.135	1.00	53.72	AAAAA	C
ATOM	2453	O	ASN	254	60.552	26.965	62.804	1.00	51.19	AAAAA	O
ATOM	2454	N	ILE	255	58.612	28.136	62.766	1.00	57.77	AAAAA	N
ATOM	2456	CA	ILE	255	57.828	27.107	62.134	1.00	53.28	AAAAA	C
ATOM	2457	CB	ILE	255	56.329	27.322	62.304	1.00	50.41	AAAAA	C
ATOM	2458	CG2	ILE	255	55.477	26.595	61.246	1.00	51.95	AAAAA	C
ATOM	2459	CG1	ILE	255	55.778	26.675	63.553	1.00	40.59	AAAAA	C
ATOM	2460	CD1	ILE	255	54.479	27.317	64.006	1.00	38.97	AAAAA	C
ATOM	2461	C	ILE	255	58.127	26.886	60.651	1.00	52.62	AAAAA	C
ATOM	2462	O	ILE	255	58.196	25.709	60.252	1.00	53.96	AAAAA	O
ATOM	2463	N	LEU	256	58.290	27.960	59.918	1.00	49.96	AAAAA	N
ATOM	2465	CA	LEU	256	58.680	27.764	58.516	1.00	63.68	AAAAA	C
ATOM	2466	CB	LEU	256	58.175	29.012	57.799	1.00	56.80	AAAAA	C
ATOM	2467	CG	LEU	256	56.671	29.196	57.864	1.00	59.11	AAAAA	C
ATOM	2468	CD1	LEU	256	56.310	30.654	57.645	1.00	43.31	AAAAA	C
ATOM	2469	CD2	LEU	256	55.965	28.222	56.928	1.00	55.88	AAAAA	C
ATOM	2470	C	LEU	256	60.193</						

ATOM	2478	C	SER	257	62.973	26.497	58.610	1.00	70.77	AAAAA	C
ATOM	2479	O	SER	257	64.127	26.731	58.246	1.00	72.50	AAAAA	O
ATOM	2480	N	ALA	258	62.322	25.389	58.320	1.00	74.61	AAAAA	N
ATOM	2482	CA	ALA	258	62.933	24.488	57.343	1.00	76.34	AAAAA	C
ATOM	2483	CB	ALA	258	62.570	23.039	57.584	1.00	80.82	AAAAA	C
ATOM	2484	C	ALA	258	62.663	24.964	55.921	1.00	78.21	AAAAA	C
ATOM	2485	O	ALA	258	62.880	24.139	55.029	1.00	79.60	AAAAA	O
ATOM	2486	N	GLU	259	62.069	26.109	55.651	1.00	79.05	AAAAA	N
ATOM	2488	CA	GLU	259	61.742	26.621	54.349	1.00	83.84	AAAAA	C
ATOM	2489	CB	GLU	259	60.226	26.457	54.135	1.00	86.99	AAAAA	C
ATOM	2490	CG	GLU	259	59.687	25.049	54.314	1.00	89.38	AAAAA	C
ATOM	2491	CD	GLU	259	58.364	25.032	55.057	1.00	97.77	AAAAA	C
ATOM	2492	OE1	GLU	259	58.080	24.088	55.838	1.00	101.45	AAAAA	O
ATOM	2493	OE2	GLU	259	57.598	26.002	54.837	1.00	94.58	AAAAA	O
ATOM	2494	C	GLU	259	62.117	28.078	54.083	1.00	85.43	AAAAA	C
ATOM	2495	O	GLU	259	62.059	29.009	54.903	1.00	88.01	AAAAA	O
ATOM	2496	N	SER	260	62.298	28.338	52.799	1.00	84.66	AAAAA	N
ATOM	2498	CA	SER	260	62.725	29.625	52.254	1.00	84.03	AAAAA	C
ATOM	2499	CB	SER	260	63.753	29.269	51.173	1.00	87.24	AAAAA	C
ATOM	2500	OG	SER	260	63.306	29.419	49.835	1.00	93.65	AAAAA	O
ATOM	2502	C	SER	260	61.558	30.466	51.789	1.00	80.84	AAAAA	C
ATOM	2503	O	SER	260	61.496	30.889	50.635	1.00	81.31	AAAAA	O
ATOM	2504	N	SER	261	60.617	30.785	52.685	1.00	78.56	AAAAA	N
ATOM	2506	CA	SER	261	59.423	31.540	52.308	1.00	72.13	AAAAA	C
ATOM	2507	CB	SER	261	58.179	31.297	53.170	1.00	67.30	AAAAA	C
ATOM	2508	OG	SER	261	57.436	30.334	52.451	1.00	74.74	AAAAA	O
ATOM	2510	C	SER	261	59.683	33.032	52.318	1.00	66.90	AAAAA	C
ATOM	2511	O	SER	261	60.048	33.588	53.334	1.00	63.24	AAAAA	O
ATOM	2512	N	ASP	262	59.364	33.659	51.204	1.00	65.30	AAAAA	N
ATOM	2514	CA	ASP	262	59.358	35.071	50.915	1.00	58.55	AAAAA	C
ATOM	2515	CB	ASP	262	59.268	35.285	49.400	1.00	64.85	AAAAA	C
ATOM	2516	CG	ASP	262	59.389	36.713	48.931	1.00	76.42	AAAAA	C
ATOM	2517	OD1	ASP	262	59.473	37.708	49.701	1.00	79.81	AAAAA	O
ATOM	2518	OD2	ASP	262	59.404	36.873	47.671	1.00	80.46	AAAAA	O
ATOM	2519	C	ASP	262	58.121	35.706	51.529	1.00	56.88	AAAAA	C
ATOM	2520	O	ASP	262	57.851	36.918	51.510	1.00	52.48	AAAAA	O
ATOM	2521	N	SER	263	57.259	34.849	52.118	1.00	53.43	AAAAA	N
ATOM	2523	CA	SER	263	56.047	35.352	52.734	1.00	52.84	AAAAA	C
ATOM	2524	CB	SER	263	55.020	34.245	52.885	1.00	46.60	AAAAA	C
ATOM	2525	OG	SER	263	55.149	33.348	51.791	1.00	66.80	AAAAA	O
ATOM	2527	C	SER	263	56.310	35.965	54.117	1.00	49.52	AAAAA	C
ATOM	2528	O	SER	263	57.396	35.737	54.709	1.00	42.33	AAAAA	O
ATOM	2529	N	GLU	264	55.320	36.783	54.540	1.00	38.93	AAAAA	N
ATOM	2531	CA	GLU	264	55.362	37.222	55.921	1.00	36.70	AAAAA	C
ATOM	2532	CB	GLU	264	54.359	38.337	56.208	1.00	43.71	AAAAA	C
ATOM	2533	CG	GLU	264	54.575	39.482	55.218	1.00	37.74	AAAAA	C
ATOM	2534	CD	GLU	264	55.374	40.632	55.793	1.00	34.36	AAAAA	C
ATOM	2535	OE1	GLU	264	55.493	40.600	57.034	1.00	41.55	AAAAA	O
ATOM	2536	OE2	GLU	264	55.832	41.576	55.146	1.00	39.60	AAAAA	O
ATOM	2537	C	GLU	264	55.098	36.056	56.827	1.00	35.84	AAAAA	C
ATOM	2538	O	GLU	264	54.368	35.151	56.355	1.00	39.60	AAAAA	O
ATOM	2539	N	GLY	265	55.801	35.938	57.962	1.00	35.64	AAAAA	N
ATOM	2541	CA	GLY	265	55.671	34.690	58.727	1.00	40.30	AAAAA	C
ATOM	2542	C	GLY	265	54.622	34.716	59.829	1.00	39.51	AAAAA	C
ATOM	2543	O	GLY	265	53.951	35.699	60.135	1.00	37.20	AAAAA	O
ATOM	2544	N	PHE	266	54.537	33.569	60.516	1.00	35.75	AAAAA	N
ATOM	2546	CA	PHE	266	53.637	33.434	61.625	1.00	33.70	AAAAA	C
ATOM	2547	CB	PHE	266	53.924	32.155	62.386	1.00	28.20	AAAAA	C
ATOM	2548	CG	PHE	266	53.356	30.958	61.671	1.00	37.07	AAAAA	C
ATOM	2549	CD1	PHE	266	53.760	30.618	60.377	1.00	34.72	AAAAA	C
ATOM	2550	CD2	PHE	266	52.383	30.185	62.313	1.00	25.65	AAAAA	C
ATOM	2551	CE1	PHE	266	53.225	29.506	59.760	1.00	37.72	AAAAA	C
ATOM	2552	CE2	PHE	266	51.879	29.094	61.672	1.00	24.63	AAAAA	C
ATOM	2553	CZ	PHE	266	52.260	28.708	60.402	1.00	23.58	AAAAA	C
ATOM	2554	C	PHE	266	53.571	34.570	62.608	1.00	35.82	AAAAA	C
ATOM	2555	O	PHE	266	54.446	35.372	62.879	1.00	39.23	AAAAA	O
ATOM	2556	N	VAL	267	52.360	34.763	63.161	1.00	37.10	AAAAA	N
ATOM	2558	CA	VAL	267	52.118	35.812	64.113	1.00	36.09	AAAAA	C
ATOM	2559	CB	VAL	267	51.315	36.974	63.567	1.00	39.01	AAAAA	C
ATOM	2560	CG1	VAL	267	51.626	37.601	62.230	1.00	31.10	AAAAA	C
ATOM	2561	CG2	VAL	267	49.890	36.400	63.570	1.00	36.88	AAAAA	C
ATOM	2562	C	VAL	267	51.506	35.260	65.400	1.00	33.55	AAAAA	C
ATOM	2563	O	VAL	267	51						

ATOM	2570	CD1	ILE	268	53.421	33.546	69.806	1.00	25.93	AAAAA	C
ATOM	2571	C	ILE	268	49.806	36.608	68.060	1.00	42.44	AAAAA	C
ATOM	2572	O	ILE	268	50.116	37.767	68.327	1.00	39.99	AAAAA	O
ATOM	2573	N	HIS	269	48.528	36.292	67.864	1.00	44.26	AAAAA	N
ATOM	2575	CA	HIS	269	47.491	37.320	68.173	1.00	44.28	AAAAA	C
ATOM	2576	CB	HIS	269	46.885	37.876	66.901	1.00	45.48	AAAAA	C
ATOM	2577	CG	HIS	269	45.915	38.986	67.079	1.00	54.33	AAAAA	C
ATOM	2578	CD2	HIS	269	44.551	39.014	67.096	1.00	46.61	AAAAA	C
ATOM	2579	ND1	HIS	269	46.356	40.280	67.307	1.00	51.86	AAAAA	N
ATOM	2581	CE1	HIS	269	45.282	41.057	67.437	1.00	55.17	AAAAA	C
ATOM	2582	NE2	HIS	269	44.175	40.324	67.309	1.00	46.97	AAAAA	N
ATOM	2584	C	HIS	269	46.423	36.740	69.074	1.00	45.54	AAAAA	C
ATOM	2585	O	HIS	269	46.076	35.552	69.027	1.00	42.94	AAAAA	O
ATOM	2586	N	ASP	270	45.952	37.526	70.059	1.00	49.82	AAAAA	N
ATOM	2588	CA	ASP	270	44.948	37.025	71.001	1.00	48.03	AAAAA	C
ATOM	2589	CB	ASP	270	43.573	37.014	70.338	1.00	63.63	AAAAA	C
ATOM	2590	CG	ASP	270	42.919	38.393	70.294	1.00	80.82	AAAAA	C
ATOM	2591	OD1	ASP	270	41.737	38.379	69.835	1.00	90.92	AAAAA	O
ATOM	2592	OD2	ASP	270	43.407	39.494	70.652	1.00	86.49	AAAAA	O
ATOM	2593	C	ASP	270	45.226	35.667	71.594	1.00	44.66	AAAAA	C
ATOM	2594	O	ASP	270	44.357	34.782	71.576	1.00	45.54	AAAAA	O
ATOM	2595	N	GLY	271	46.477	35.379	71.924	1.00	41.63	AAAAA	N
ATOM	2597	CA	GLY	271	46.839	34.117	72.506	1.00	37.20	AAAAA	C
ATOM	2598	C	GLY	271	46.818	32.998	71.537	1.00	39.15	AAAAA	C
ATOM	2599	O	GLY	271	46.775	31.865	72.039	1.00	46.56	AAAAA	O
ATOM	2600	N	GLU	272	47.015	33.292	70.251	1.00	41.49	AAAAA	N
ATOM	2602	CA	GLU	272	47.108	32.092	69.371	1.00	43.56	AAAAA	C
ATOM	2603	CB	GLU	272	45.752	31.737	68.876	1.00	37.58	AAAAA	C
ATOM	2604	CG	GLU	272	45.778	30.600	67.839	1.00	45.30	AAAAA	C
ATOM	2605	CD	GLU	272	44.413	30.528	67.149	1.00	36.92	AAAAA	C
ATOM	2606	OE1	GLU	272	43.545	31.345	67.533	1.00	48.41	AAAAA	O
ATOM	2607	OE2	GLU	272	44.223	29.696	66.286	1.00	44.10	AAAAA	O
ATOM	2608	C	GLU	272	48.211	32.324	68.335	1.00	40.32	AAAAA	C
ATOM	2609	O	GLU	272	48.445	33.447	67.896	1.00	37.04	AAAAA	O
ATOM	2610	N	CYS	273	48.942	31.237	68.138	1.00	38.83	AAAAA	N
ATOM	2612	CA	CYS	273	50.046	31.187	67.188	1.00	40.27	AAAAA	C
ATOM	2613	C	CYS	273	49.321	30.810	65.883	1.00	42.16	AAAAA	C
ATOM	2614	O	CYS	273	48.713	29.712	65.831	1.00	40.86	AAAAA	O
ATOM	2615	CB	CYS	273	51.098	30.148	67.529	1.00	40.21	AAAAA	C
ATOM	2616	SG	CYS	273	52.337	29.825	66.260	1.00	39.79	AAAAA	S
ATOM	2617	N	MET	274	49.373	31.749	64.933	1.00	33.70	AAAAA	N
ATOM	2619	CA	MET	274	48.586	31.351	63.720	1.00	36.68	AAAAA	C
ATOM	2620	CB	MET	274	47.136	31.861	63.847	1.00	29.11	AAAAA	C
ATOM	2621	CG	MET	274	46.923	33.379	63.691	1.00	36.51	AAAAA	C
ATOM	2622	SD	MET	274	45.477	33.921	64.677	1.00	40.00	AAAAA	S
ATOM	2623	CE	MET	274	45.659	35.658	64.754	1.00	22.47	AAAAA	C
ATOM	2624	C	MET	274	49.426	31.900	62.608	1.00	39.35	AAAAA	C
ATOM	2625	O	MET	274	50.167	32.880	62.672	1.00	41.00	AAAAA	O
ATOM	2626	N	GLN	275	49.378	31.353	61.428	1.00	42.55	AAAAA	N
ATOM	2628	CA	GLN	275	50.041	31.834	60.232	1.00	37.69	AAAAA	C
ATOM	2629	CB	GLN	275	49.618	30.765	59.242	1.00	34.01	AAAAA	C
ATOM	2630	CG	GLN	275	49.329	31.274	57.864	1.00	56.40	AAAAA	C
ATOM	2631	CD	GLN	275	49.275	30.190	56.812	1.00	66.46	AAAAA	C
ATOM	2632	OE1	GLN	275	49.941	29.151	56.910	1.00	67.24	AAAAA	O
ATOM	2633	NE2	GLN	275	48.451	30.436	55.799	1.00	78.29	AAAAA	N
ATOM	2636	C	GLN	275	49.721	33.195	59.720	1.00	35.41	AAAAA	C
ATOM	2637	O	GLN	275	50.526	33.831	59.064	1.00	35.95	AAAAA	O
ATOM	2638	N	GLU	276	48.566	33.754	60.056	1.00	41.70	AAAAA	N
ATOM	2640	CA	GLU	276	48.222	35.080	59.571	1.00	43.96	AAAAA	C
ATOM	2641	CB	GLU	276	47.387	34.884	58.245	1.00	42.40	AAAAA	C
ATOM	2642	CG	GLU	276	47.154	36.269	57.650	1.00	53.84	AAAAA	C
ATOM	2643	CD	GLU	276	48.359	37.198	57.460	1.00	61.37	AAAAA	C
ATOM	2644	OE1	GLU	276	49.356	36.595	56.943	1.00	67.32	AAAAA	O
ATOM	2645	OE2	GLU	276	48.242	38.411	57.811	1.00	45.10	AAAAA	O
ATOM	2646	C	GLU	276	47.444	35.935	60.540	1.00	39.74	AAAAA	C
ATOM	2647	O	GLU	276	46.760	35.449	61.444	1.00	45.06	AAAAA	O
ATOM	2648	N	CYS	277	47.495	37.235	60.500	1.00	38.69	AAAAA	N
ATOM	2650	CA	CYS	277	46.718	38.089	61.332	1.00	46.11	AAAAA	C
ATOM	2651	C	CYS	277	45.205	37.938	60.994	1.00	52.70	AAAAA	C
ATOM	2652	O	CYS	277	44.760	37.511	59.936	1.00	49.43	AAAAA	O
ATOM	2653	CB	CYS	277	47.039	39.537	61.111	1.00	45.56	AAAAA	C
ATOM	2654	SG	CYS	277	48.629	40.083	61.645	1.00	52.86	AAAAA	S
ATOM	2655	N	PRO</td								

ATOM	2661	O	PRO	278	43.083	40.195	60.631	1.00	48.76	AAAAA O
ATOM	2662	N	SER	279	41.370	38.845	60.143	1.00	49.35	AAAAA N
ATOM	2664	CA	SER	279	40.815	39.720	59.140	1.00	52.03	AAAAA C
ATOM	2665	CB	SER	279	39.280	39.572	58.975	1.00	47.62	AAAAA C
ATOM	2666	OG	SER	279	39.320	38.778	57.785	1.00	68.16	AAAAA O
ATOM	2668	C	SER	279	41.003	41.209	59.173	1.00	55.40	AAAAA C
ATOM	2669	O	SER	279	41.225	41.740	58.059	1.00	55.40	AAAAA O
ATOM	2670	N	GLY	280	40.775	41.962	60.247	1.00	55.32	AAAAA N
ATOM	2672	CA	GLY	280	40.968	43.406	59.868	1.00	48.58	AAAAA C
ATOM	2673	C	GLY	280	42.248	43.890	60.479	1.00	55.98	AAAAA C
ATOM	2674	O	GLY	280	42.249	45.097	60.772	1.00	56.00	AAAAA O
ATOM	2675	N	PHE	281	43.213	42.983	60.742	1.00	55.42	AAAAA N
ATOM	2677	CA	PHE	281	44.506	43.411	61.262	1.00	52.94	AAAAA C
ATOM	2678	CB	PHE	281	44.938	42.644	62.523	1.00	61.20	AAAAA C
ATOM	2679	CG	PHE	281	43.958	42.792	63.637	1.00	53.66	AAAAA C
ATOM	2680	CD1	PHE	281	44.142	43.702	64.630	1.00	60.47	AAAAA C
ATOM	2681	CD2	PHE	281	42.839	41.992	63.712	1.00	60.98	AAAAA C
ATOM	2682	CE1	PHE	281	43.272	43.901	65.678	1.00	64.71	AAAAA C
ATOM	2683	CE2	PHE	281	41.931	42.162	64.756	1.00	63.18	AAAAA C
ATOM	2684	CZ	PHE	281	42.141	43.115	65.744	1.00	58.88	AAAAA C
ATOM	2685	C	PHE	281	45.630	43.217	60.240	1.00	48.00	AAAAA C
ATOM	2686	O	PHE	281	45.738	42.395	59.327	1.00	38.84	AAAAA O
ATOM	2687	N	ILE	282	46.670	43.990	60.557	1.00	49.55	AAAAA N
ATOM	2689	CA	ILE	282	47.907	43.984	59.748	1.00	45.00	AAAAA C
ATOM	2690	CB	ILE	282	47.945	45.188	58.799	1.00	30.25	AAAAA C
ATOM	2691	CG2	ILE	282	48.041	46.494	59.507	1.00	24.60	AAAAA C
ATOM	2692	CG1	ILE	282	49.092	45.022	57.795	1.00	38.71	AAAAA C
ATOM	2693	CD1	ILE	282	49.194	46.043	56.669	1.00	33.38	AAAAA C
ATOM	2694	C	ILE	282	49.081	43.889	60.673	1.00	44.30	AAAAA C
ATOM	2695	O	ILE	282	49.078	44.447	61.759	1.00	48.49	AAAAA O
ATOM	2696	N	ARG	283	50.126	43.153	60.298	1.00	48.68	AAAAA N
ATOM	2698	CA	ARG	283	51.396	43.094	61.048	1.00	39.30	AAAAA C
ATOM	2699	CB	ARG	283	52.300	42.200	60.286	1.00	41.10	AAAAA C
ATOM	2700	CG	ARG	283	52.295	40.696	60.515	1.00	29.19	AAAAA C
ATOM	2701	CD	ARG	283	53.078	39.986	59.451	1.00	29.85	AAAAA C
ATOM	2702	NE	ARG	283	52.823	38.545	59.404	1.00	29.39	AAAAA N
ATOM	2704	CZ	ARG	283	51.862	38.024	58.646	1.00	37.61	AAAAA C
ATOM	2705	NH1	ARG	283	51.065	38.846	57.944	1.00	31.41	AAAAA N
ATOM	2708	NH2	ARG	283	51.651	36.722	58.596	1.00	31.97	AAAAA N
ATOM	2711	C	ARG	283	51.945	44.498	61.190	1.00	42.27	AAAAA C
ATOM	2712	O	ARG	283	51.931	45.228	60.173	1.00	43.42	AAAAA O
ATOM	2713	N	ASN	284	52.362	44.886	62.422	1.00	39.49	AAAAA N
ATOM	2715	CA	ASN	284	52.733	46.311	62.574	1.00	42.07	AAAAA C
ATOM	2721	C	ASN	284	54.078	46.656	61.929	1.00	41.64	AAAAA C
ATOM	2722	O	ASN	284	54.431	47.798	61.742	1.00	39.01	AAAAA O
ATOM	2716	CB	ASN	284	52.734	46.760	64.032	1.00	37.33	AAAAA C
ATOM	2717	CG	ASN	284	53.917	46.028	64.611	1.00	50.21	AAAAA C
ATOM	2718	OD1	ASN	284	54.609	45.104	64.192	1.00	44.30	AAAAA O
ATOM	2719	ND2	ASN	284	54.323	46.432	65.842	1.00	42.46	AAAAA N
ATOM	2723	N	GLY	285	54.931	45.699	61.562	1.00	40.10	AAAAA N
ATOM	2725	CA	GLY	285	55.971	45.815	60.593	1.00	26.91	AAAAA C
ATOM	2726	C	GLY	285	56.091	44.468	59.848	1.00	33.12	AAAAA C
ATOM	2727	O	GLY	285	55.584	43.331	60.187	1.00	29.51	AAAAA O
ATOM	2728	N	SER	286	56.915	44.619	58.766	1.00	26.53	AAAAA N
ATOM	2730	CA	SER	286	57.109	43.385	57.975	1.00	32.67	AAAAA C
ATOM	2731	CB	SER	286	57.944	43.681	56.757	1.00	33.19	AAAAA C
ATOM	2732	OG	SER	286	58.283	42.480	56.014	1.00	31.95	AAAAA O
ATOM	2734	C	SER	286	57.750	42.310	58.836	1.00	34.57	AAAAA C
ATOM	2735	O	SER	286	58.700	42.495	59.607	1.00	44.29	AAAAA O
ATOM	2736	N	GLN	287	57.227	41.148	58.940	1.00	34.45	AAAAA N
ATOM	2738	CA	GLN	287	57.738	40.005	59.634	1.00	35.25	AAAAA C
ATOM	2739	CB	GLN	287	59.139	39.610	59.083	1.00	27.97	AAAAA C
ATOM	2740	CG	GLN	287	59.037	39.234	57.664	1.00	26.61	AAAAA C
ATOM	2741	CD	GLN	287	58.539	37.963	57.130	1.00	21.25	AAAAA C
ATOM	2742	OE1	GLN	287	58.192	37.023	57.845	1.00	28.18	AAAAA O
ATOM	2743	NE2	GLN	287	58.492	37.838	55.782	1.00	27.55	AAAAA N
ATOM	2746	C	GLN	287	57.773	40.286	61.111	1.00	30.25	AAAAA C
ATOM	2747	O	GLN	287	58.163	39.415	61.908	1.00	32.78	AAAAA O
ATOM	2748	N	SER	288	57.021	41.217	61.624	1.00	32.49	AAAAA N
ATOM	2750	CA	SER	288	56.696	41.322	63.043	1.00	28.98	AAAAA C
ATOM	2751	CB	SER	288	56.024	42.675	63.313	1.00	35.79	AAAAA C
ATOM	2752	OG	SER	288	55.639	42.612	64.701	1.00	36.61	AAAAA O
ATOM	2754	C	SER	288	55.665	40.285	63.442	1.00	28.96	AAAAA C
ATOM	2755	O	SER	288	54.993	39.776	62.553	1.00	31.16	AAAAA O
ATOM	2756	N	MET	289	55.774	39.720	64.621	1.00	32.51	AAAAA N
ATOM	2758	CA	MET	289	5					

ATOM	2761	SD	MET	289	56.977	35.623	66.881	1.00	31.65	AAAAA	S
ATOM	2762	CE	MET	289	55.745	34.315	66.508	1.00	30.47	AAAAA	C
ATOM	2763	C	MET	289	53.557	39.286	65.703	1.00	35.55	AAAAA	C
ATOM	2764	O	MET	289	52.630	38.512	66.014	1.00	38.37	AAAAA	O
ATOM	2765	N	TYR	290	53.380	40.565	65.742	1.00	29.54	AAAAA	N
ATOM	2767	CA	TYR	290	52.363	41.358	66.297	1.00	38.81	AAAAA	C
ATOM	2768	CB	TYR	290	52.947	42.589	67.042	1.00	36.72	AAAAA	C
ATOM	2769	CG	TYR	290	53.570	42.184	68.351	1.00	41.94	AAAAA	C
ATOM	2770	CD1	TYR	290	54.932	41.780	68.350	1.00	37.79	AAAAA	C
ATOM	2771	CE1	TYR	290	55.548	41.368	69.503	1.00	32.60	AAAAA	C
ATOM	2772	CD2	TYR	290	52.887	42.157	69.570	1.00	39.93	AAAAA	C
ATOM	2773	CE2	TYR	290	53.501	41.750	70.748	1.00	36.16	AAAAA	C
ATOM	2774	CZ	TYR	290	54.822	41.355	70.693	1.00	38.85	AAAAA	C
ATOM	2775	OH	TYR	290	55.581	40.923	71.751	1.00	43.41	AAAAA	O
ATOM	2777	C	TYR	290	51.361	41.955	65.270	1.00	45.54	AAAAA	C
ATOM	2778	O	TYR	290	51.733	42.520	64.227	1.00	47.10	AAAAA	O
ATOM	2779	N	CYS	291	50.071	41.698	65.537	1.00	44.68	AAAAA	N
ATOM	2781	CA	CYS	291	49.017	42.205	64.685	1.00	47.20	AAAAA	C
ATOM	2782	C	CYS	291	48.295	43.434	65.194	1.00	46.06	AAAAA	C
ATOM	2783	O	CYS	291	47.892	43.550	66.343	1.00	49.45	AAAAA	O
ATOM	2784	CB	CYS	291	47.973	41.103	64.483	1.00	43.44	AAAAA	C
ATOM	2785	SG	CYS	291	48.766	39.715	63.683	1.00	45.49	AAAAA	S
ATOM	2786	N	ILE	292	48.136	44.453	64.365	1.00	46.82	AAAAA	N
ATOM	2788	CA	ILE	292	47.399	45.651	64.755	1.00	50.64	AAAAA	C
ATOM	2789	CB	ILE	292	48.267	46.932	64.779	1.00	39.19	AAAAA	C
ATOM	2790	CG2	ILE	292	49.291	46.885	65.861	1.00	44.39	AAAAA	C
ATOM	2791	CG1	ILE	292	48.920	47.095	63.402	1.00	44.25	AAAAA	C
ATOM	2792	CD1	ILE	292	49.234	48.568	63.108	1.00	32.80	AAAAA	C
ATOM	2793	C	ILE	292	46.240	46.003	63.806	1.00	50.01	AAAAA	C
ATOM	2794	O	ILE	292	46.165	45.526	62.670	1.00	46.64	AAAAA	O
ATOM	2795	N	PRO	293	45.150	46.507	64.385	1.00	51.86	AAAAA	N
ATOM	2796	CD	PRO	293	45.009	46.804	65.839	1.00	51.05	AAAAA	C
ATOM	2797	CA	PRO	293	43.958	46.930	63.675	1.00	51.40	AAAAA	C
ATOM	2798	CB	PRO	293	43.170	47.784	64.681	1.00	49.00	AAAAA	C
ATOM	2799	CG	PRO	293	43.533	47.112	65.951	1.00	53.73	AAAAA	C
ATOM	2800	C	PRO	293	44.253	47.870	62.525	1.00	51.68	AAAAA	C
ATOM	2801	O	PRO	293	45.053	48.788	62.737	1.00	51.92	AAAAA	O
ATOM	2802	N	CYS	294	43.607	47.621	61.408	1.00	50.66	AAAAA	N
ATOM	2804	CA	CYS	294	43.811	48.464	60.254	1.00	57.90	AAAAA	C
ATOM	2805	C	CYS	294	43.219	49.848	60.345	1.00	59.59	AAAAA	C
ATOM	2806	O	CYS	294	43.744	50.814	59.785	1.00	60.87	AAAAA	O
ATOM	2807	CB	CYS	294	43.229	47.686	59.046	1.00	57.59	AAAAA	C
ATOM	2808	SG	CYS	294	44.408	46.460	58.563	1.00	51.12	AAAAA	S
ATOM	2809	N	ALA	295	42.009	50.031	60.854	1.00	65.87	AAAAA	N
ATOM	2811	CA	ALA	295	41.391	51.386	60.804	1.00	71.19	AAAAA	C
ATOM	2812	CB	ALA	295	42.311	52.459	61.393	1.00	63.82	AAAAA	C
ATOM	2813	C	ALA	295	40.971	51.770	59.370	1.00	69.17	AAAAA	C
ATOM	2814	O	ALA	295	41.421	52.717	58.762	1.00	64.70	AAAAA	O
ATOM	2815	N	GLY	296	40.153	50.920	58.775	1.00	71.30	AAAAA	N
ATOM	2817	CA	GLY	296	39.640	51.049	57.416	1.00	72.66	AAAAA	C
ATOM	2818	C	GLY	296	39.895	49.686	56.769	1.00	74.20	AAAAA	C
ATOM	2819	O	GLY	296	40.408	48.819	57.490	1.00	75.04	AAAAA	O
ATOM	2820	N	PRO	297	39.561	49.540	55.497	1.00	71.88	AAAAA	N
ATOM	2821	CD	PRO	297	38.928	50.561	54.637	1.00	72.15	AAAAA	C
ATOM	2822	CA	PRO	297	39.958	48.344	54.777	1.00	68.23	AAAAA	C
ATOM	2823	CB	PRO	297	39.488	48.603	53.369	1.00	72.57	AAAAA	C
ATOM	2824	CG	PRO	297	38.470	49.687	53.490	1.00	74.04	AAAAA	C
ATOM	2825	C	PRO	297	41.480	48.306	54.860	1.00	65.78	AAAAA	C
ATOM	2826	O	PRO	297	42.147	49.323	54.997	1.00	62.72	AAAAA	O
ATOM	2827	N	CYS	298	42.039	47.135	55.073	1.00	63.85	AAAAA	N
ATOM	2829	CA	CYS	298	43.464	46.953	55.248	1.00	54.47	AAAAA	C
ATOM	2830	C	CYS	298	44.109	47.303	53.908	1.00	54.56	AAAAA	C
ATOM	2831	O	CYS	298	43.621	47.030	52.820	1.00	54.83	AAAAA	O
ATOM	2832	CB	CYS	298	43.665	45.544	55.669	1.00	47.65	AAAAA	C
ATOM	2833	SG	CYS	298	43.501	45.115	57.371	1.00	46.12	AAAAA	S
ATOM	2834	N	PRO	299	45.310	47.876	53.967	1.00	49.83	AAAAA	N
ATOM	2835	CD	PRO	299	46.087	48.168	55.194	1.00	48.14	AAAAA	C
ATOM	2836	CA	PRO	299	46.055	48.212	52.787	1.00	43.67	AAAAA	C
ATOM	2837	CB	PRO	299	47.267	48.965	53.281	1.00	44.08	AAAAA	C
ATOM	2838	CG	PRO	299	47.454	48.361	54.628	1.00	51.38	AAAAA	C
ATOM	2839	C	PRO	299	46.341	46.969	52.010	1.00	38.86	AAAAA	C
ATOM	2840	O	PRO	299	46.372	45.874	52.546	1.00	42.85	AAAAA	O
ATOM	2841	N	LYS	300	46.310	4					

ATOM	2848	NZ	LYS	300	43.662	42.031	46.478	1.00	63.70	AAAAA	N
ATOM	2852	C	LYS	300	46.964	46.479	48.432	1.00	48.72	AAAAA	C
ATOM	2853	O	LYS	300	46.413	47.383	47.776	1.00	46.09	AAAAA	O
ATOM	2854	N	VAL	301	48.150	45.984	48.054	1.00	48.15	AAAAA	N
ATOM	2856	CA	VAL	301	48.802	46.462	46.871	1.00	44.52	AAAAA	C
ATOM	2857	CB	VAL	301	50.292	46.729	47.074	1.00	51.52	AAAAA	C
ATOM	2858	CG1	VAL	301	51.008	47.200	45.796	1.00	43.07	AAAAA	C
ATOM	2859	CG2	VAL	301	50.495	47.794	48.141	1.00	49.50	AAAAA	C
ATOM	2860	C	VAL	301	48.526	45.410	45.837	1.00	44.59	AAAAA	C
ATOM	2861	O	VAL	301	48.913	44.291	46.060	1.00	43.70	AAAAA	O
ATOM	2862	N	CYS	302	47.910	45.816	44.718	1.00	47.98	AAAAA	N
ATOM	2864	CA	CYS	302	47.645	44.735	43.739	1.00	55.19	AAAAA	C
ATOM	2865	C	CYS	302	48.594	44.968	42.583	1.00	57.64	AAAAA	C
ATOM	2866	O	CYS	302	48.852	46.152	42.343	1.00	60.23	AAAAA	O
ATOM	2867	CB	CYS	302	46.186	44.630	43.330	1.00	68.30	AAAAA	C
ATOM	2868	SG	CYS	302	45.070	44.360	44.751	1.00	70.31	AAAAA	S
ATOM	2869	N	GLU	303	49.183	43.921	42.075	1.00	58.15	AAAAA	N
ATOM	2871	CA	GLU	303	50.174	43.932	41.034	1.00	62.85	AAAAA	C
ATOM	2872	CB	GLU	303	51.603	44.006	41.595	1.00	67.85	AAAAA	C
ATOM	2873	CG	GLU	303	51.760	43.487	43.014	0.01	67.46	AAAAA	C
ATOM	2874	CD	GLU	303	51.989	41.992	43.097	0.01	67.94	AAAAA	C
ATOM	2875	OE1	GLU	303	53.011	41.514	42.561	0.01	67.67	AAAAA	O
ATOM	2876	OE2	GLU	303	51.147	41.290	43.697	0.01	67.65	AAAAA	O
ATOM	2877	C	GLU	303	50.096	42.662	40.194	1.00	64.12	AAAAA	C
ATOM	2878	O	GLU	303	50.162	41.562	40.708	1.00	65.08	AAAAA	O
ATOM	2879	N	GLU	304	49.867	42.794	38.904	1.00	67.37	AAAAA	N
ATOM	2881	CA	GLU	304	49.672	41.583	38.094	1.00	74.63	AAAAA	C
ATOM	2882	CB	GLU	304	48.285	41.596	37.458	1.00	71.71	AAAAA	C
ATOM	2883	CG	GLU	304	47.339	42.663	38.031	1.00	84.54	AAAAA	C
ATOM	2884	CD	GLU	304	45.930	42.152	38.185	1.00	87.56	AAAAA	C
ATOM	2885	OE1	GLU	304	45.438	41.571	37.179	1.00	89.13	AAAAA	O
ATOM	2886	OE2	GLU	304	45.249	42.269	39.233	1.00	93.19	AAAAA	O
ATOM	2887	C	GLU	304	50.866	41.307	37.190	1.00	76.10	AAAAA	C
ATOM	2888	O	GLU	304	51.911	41.962	37.217	1.00	74.78	AAAAA	O
ATOM	2889	N	GLU	305	50.899	40.126	36.568	1.00	77.31	AAAAA	N
ATOM	2891	CA	GLU	305	51.932	39.656	35.674	1.00	75.90	AAAAA	C
ATOM	2892	CB	GLU	305	51.467	38.380	34.970	1.00	79.95	AAAAA	C
ATOM	2893	CG	GLU	305	52.307	37.937	33.807	1.00	87.28	AAAAA	C
ATOM	2894	CD	GLU	305	51.758	36.891	32.886	0.01	83.39	AAAAA	C
ATOM	2895	OE1	GLU	305	50.762	36.234	33.252	0.01	83.66	AAAAA	O
ATOM	2896	OE2	GLU	305	52.310	36.700	31.780	0.01	83.73	AAAAA	O
ATOM	2897	C	GLU	305	52.276	40.737	34.666	1.00	75.97	AAAAA	C
ATOM	2898	O	GLU	305	53.381	41.268	34.613	1.00	76.54	AAAAA	O
ATOM	2899	N	LYS	306	51.291	41.181	33.888	1.00	78.22	AAAAA	N
ATOM	2901	CA	LYS	306	51.479	42.328	33.004	1.00	75.99	AAAAA	C
ATOM	2902	CB	LYS	306	50.467	42.253	31.855	1.00	79.78	AAAAA	C
ATOM	2903	CG	LYS	306	51.208	42.227	30.527	1.00	94.52	AAAAA	C
ATOM	2904	CD	LYS	306	50.313	42.191	29.314	1.00	92.78	AAAAA	C
ATOM	2905	CE	LYS	306	50.740	43.227	28.261	1.00	97.10	AAAAA	C
ATOM	2906	NZ	LYS	306	50.938	44.554	28.929	1.00	84.87	AAAAA	N
ATOM	2910	C	LYS	306	51.381	43.669	33.703	1.00	73.85	AAAAA	C
ATOM	2911	O	LYS	306	50.703	43.862	34.718	1.00	76.08	AAAAA	O
ATOM	2912	N	LYS	307	52.000	44.700	33.180	1.00	71.15	AAAAA	N
ATOM	2914	CA	LYS	307	51.934	46.053	33.692	1.00	69.45	AAAAA	C
ATOM	2915	CB	LYS	307	53.022	46.903	33.008	1.00	79.64	AAAAA	C
ATOM	2916	CG	LYS	307	54.419	46.837	33.564	1.00	78.88	AAAAA	C
ATOM	2917	CD	LYS	307	55.257	48.084	33.374	1.00	85.84	AAAAA	C
ATOM	2918	CE	LYS	307	55.708	48.215	31.924	1.00	97.07	AAAAA	C
ATOM	2919	NZ	LYS	307	54.649	48.840	31.067	1.00	97.80	AAAAA	N
ATOM	2923	C	LYS	307	50.562	46.716	33.525	1.00	67.97	AAAAA	C
ATOM	2924	O	LYS	307	50.010	47.369	34.431	1.00	64.46	AAAAA	O
ATOM	2925	N	THR	308	49.979	46.661	32.323	1.00	65.84	AAAAA	N
ATOM	2927	CA	THR	308	48.709	47.319	32.091	1.00	64.56	AAAAA	C
ATOM	2928	CB	THR	308	48.714	47.977	30.711	1.00	59.91	AAAAA	C
ATOM	2929	OG1	THR	308	49.834	48.843	30.577	1.00	61.97	AAAAA	O
ATOM	2931	CG2	THR	308	47.392	48.742	30.561	1.00	63.64	AAAAA	C
ATOM	2932	C	THR	308	47.514	46.379	32.234	1.00	61.82	AAAAA	C
ATOM	2933	O	THR	308	47.412	45.415	31.477	1.00	62.05	AAAAA	O
ATOM	2934	N	LYS	309	46.675	46.719	33.211	1.00	55.66	AAAAA	N
ATOM	2936	CA	LYS	309	45.456	45.926	33.445	1.00	54.67	AAAAA	C
ATOM	2937	CB	LYS	309	45.043	45.880	34.904	1.00	56.82	AAAAA	C
ATOM	2938	CG	LYS	309	43.601	45.541	35.223	1.00	57.50	AAAAA	C
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ATOM	2949	CA	THR	310	42.862	46.328	30.733	1.00	51.89	AAAAA	C
ATOM	2950	CB	THR	310	43.161	46.015	29.266	1.00	54.81	AAAAA	C
ATOM	2951	OG1	THR	310	41.909	45.710	28.635	1.00	66.29	AAAAA	O
ATOM	2953	CG2	THR	310	44.032	44.791	29.139	1.00	55.18	AAAAA	C
ATOM	2954	C	THR	310	41.468	45.841	31.117	1.00	51.15	AAAAA	C
ATOM	2955	O	THR	310	41.162	44.680	30.991	1.00	49.27	AAAAA	O
ATOM	2956	N	ILE	311	40.684	46.706	31.732	1.00	50.18	AAAAA	N
ATOM	2958	CA	ILE	311	39.363	46.453	32.276	1.00	48.67	AAAAA	C
ATOM	2959	CB	ILE	311	39.120	47.396	33.462	1.00	49.27	AAAAA	C
ATOM	2960	CG2	ILE	311	37.655	47.596	33.799	1.00	50.72	AAAAA	C
ATOM	2961	CG1	ILE	311	39.896	46.930	34.699	1.00	41.34	AAAAA	C
ATOM	2962	CD1	ILE	311	39.847	48.073	35.739	1.00	52.22	AAAAA	C
ATOM	2963	C	ILE	311	38.334	46.729	31.186	1.00	45.37	AAAAA	C
ATOM	2964	O	ILE	311	38.132	47.875	30.758	1.00	37.14	AAAAA	O
ATOM	2965	N	ASP	312	37.871	45.678	30.524	1.00	50.10	AAAAA	N
ATOM	2967	CA	ASP	312	36.991	45.842	29.377	1.00	56.35	AAAAA	C
ATOM	2968	CB	ASP	312	37.546	45.152	28.128	1.00	59.45	AAAAA	C
ATOM	2969	CG	ASP	312	37.761	43.671	28.382	1.00	65.64	AAAAA	C
ATOM	2970	OD1	ASP	312	38.525	43.034	27.636	1.00	72.60	AAAAA	O
ATOM	2971	OD2	ASP	312	37.154	43.176	29.348	1.00	66.86	AAAAA	O
ATOM	2972	C	ASP	312	35.589	45.337	29.693	1.00	59.39	AAAAA	C
ATOM	2973	O	ASP	312	34.729	45.007	28.867	1.00	61.00	AAAAA	O
ATOM	2974	N	SER	313	35.278	45.290	30.976	1.00	61.17	AAAAA	N
ATOM	2976	CA	SER	313	34.053	44.683	31.459	1.00	55.73	AAAAA	C
ATOM	2977	CB	SER	313	34.121	43.201	31.083	1.00	48.22	AAAAA	C
ATOM	2978	OG	SER	313	34.373	42.514	32.282	1.00	57.89	AAAAA	O
ATOM	2980	C	SER	313	33.998	44.818	32.941	1.00	57.87	AAAAA	C
ATOM	2981	O	SER	313	34.802	45.506	33.537	1.00	66.47	AAAAA	O
ATOM	2982	N	VAL	314	33.001	44.205	33.545	1.00	64.35	AAAAA	N
ATOM	2984	CA	VAL	314	32.849	44.305	35.016	1.00	64.39	AAAAA	C
ATOM	2985	CB	VAL	314	31.360	44.340	35.343	1.00	69.57	AAAAA	C
ATOM	2986	CG1	VAL	314	31.024	43.693	36.681	1.00	65.60	AAAAA	C
ATOM	2987	CG2	VAL	314	30.927	45.823	35.319	1.00	65.27	AAAAA	C
ATOM	2988	C	VAL	314	33.492	43.088	35.638	1.00	62.65	AAAAA	C
ATOM	2989	O	VAL	314	34.029	43.141	36.704	1.00	63.92	AAAAA	O
ATOM	2990	N	THR	315	33.468	42.011	34.878	1.00	61.82	AAAAA	N
ATOM	2992	CA	THR	315	34.029	40.752	35.284	1.00	63.44	AAAAA	C
ATOM	2993	CB	THR	315	33.618	39.628	34.314	1.00	65.54	AAAAA	C
ATOM	2994	OG1	THR	315	32.403	40.004	33.634	1.00	74.05	AAAAA	O
ATOM	2996	CG2	THR	315	33.339	38.366	35.104	1.00	64.86	AAAAA	C
ATOM	2997	C	THR	315	35.541	40.871	35.323	1.00	65.62	AAAAA	C
ATOM	2998	O	THR	315	36.217	40.339	36.206	1.00	66.41	AAAAA	O
ATOM	2999	N	SER	316	36.071	41.593	34.332	1.00	63.28	AAAAA	N
ATOM	3001	CA	SER	316	37.500	41.793	34.215	1.00	58.72	AAAAA	C
ATOM	3002	CB	SER	316	37.785	42.537	32.900	1.00	52.20	AAAAA	C
ATOM	3003	OG	SER	316	37.298	43.859	32.933	1.00	48.04	AAAAA	O
ATOM	3005	C	SER	316	38.077	42.573	35.387	1.00	58.91	AAAAA	C
ATOM	3006	O	SER	316	39.293	42.522	35.520	1.00	59.86	AAAAA	O
ATOM	3007	N	ALA	317	37.310	43.362	36.111	1.00	55.86	AAAAA	N
ATOM	3009	CA	ALA	317	37.750	44.184	37.191	1.00	57.17	AAAAA	C
ATOM	3010	CB	ALA	317	36.833	45.409	37.269	1.00	54.23	AAAAA	C
ATOM	3011	C	ALA	317	37.689	43.487	38.538	1.00	62.05	AAAAA	C
ATOM	3012	O	ALA	317	37.702	44.128	39.599	1.00	60.30	AAAAA	O
ATOM	3013	N	GLN	318	37.361	42.205	38.523	1.00	67.91	AAAAA	N
ATOM	3015	CA	GLN	318	37.185	41.380	39.713	1.00	70.72	AAAAA	C
ATOM	3016	CB	GLN	318	36.857	39.956	39.293	1.00	74.48	AAAAA	C
ATOM	3017	CG	GLN	318	36.624	38.947	40.383	1.00	89.82	AAAAA	C
ATOM	3018	CD	GLN	318	35.265	39.080	41.048	1.00	92.69	AAAAA	C
ATOM	3019	OE1	GLN	318	34.256	38.807	40.391	1.00	98.57	AAAAA	O
ATOM	3020	NE2	GLN	318	35.356	39.509	42.308	1.00	92.51	AAAAA	N
ATOM	3023	C	GLN	318	38.380	41.413	40.653	1.00	72.63	AAAAA	C
ATOM	3024	O	GLN	318	38.294	41.855	41.804	1.00	68.92	AAAAA	O
ATOM	3025	N	MET	319	39.562	41.062	40.153	1.00	75.18	AAAAA	N
ATOM	3027	CA	MET	319	40.846	41.175	40.826	1.00	71.85	AAAAA	C
ATOM	3028	CB	MET	319	41.950	40.960	39.772	1.00	82.00	AAAAA	C
ATOM	3029	CG	MET	319	41.740	39.644	39.050	1.00	91.16	AAAAA	C
ATOM	3030	SD	MET	319	43.123	38.482	39.185	1.00	106.72	AAAAA	S
ATOM	3031	CE	MET	319	42.486	37.105	38.231	1.00	97.56	AAAAA	C
ATOM	3032	C	MET	319	41.118	42.509	41.471	1.00	67.68	AAAAA	C
ATOM	3033	O	MET	319	41.597	42.541	42.612	1.00	69.73	AAAAA	O
ATOM	3034	N	LEU	320	40.740	43.639	40.887	1.00	62.95	AAAAA	N
ATOM	3036	CA	LEU	320	40.907	44.938	41.531	1.00	62.31	AAAAA	C
ATOM	3037	CB	LEU	320	40.440</td						

ATOM	3043	N	GLN	321	39.267	44.106	43.112	1.00	59.62	AAAAA	N
ATOM	3045	CA	GLN	321	38.482	44.128	44.343	1.00	63.50	AAAAA	C
ATOM	3046	CB	GLN	321	37.373	43.089	44.250	1.00	62.52	AAAAA	C
ATOM	3047	CG	GLN	321	36.611	42.854	45.522	1.00	56.83	AAAAA	C
ATOM	3048	CD	GLN	321	35.337	42.064	45.291	1.00	68.77	AAAAA	C
ATOM	3049	OE1	GLN	321	35.362	40.969	44.718	1.00	70.37	AAAAA	O
ATOM	3050	NE2	GLN	321	34.218	42.632	45.764	1.00	63.77	AAAAA	N
ATOM	3053	C	GLN	321	39.367	44.030	45.594	1.00	60.97	AAAAA	C
ATOM	3054	O	GLN	321	40.262	43.196	45.782	1.00	57.29	AAAAA	O
ATOM	3055	N	GLY	322	39.092	44.928	46.546	1.00	57.62	AAAAA	N
ATOM	3057	CA	GLY	322	39.855	44.928	47.790	1.00	60.63	AAAAA	C
ATOM	3058	C	GLY	322	41.126	45.773	47.812	1.00	61.78	AAAAA	C
ATOM	3059	O	GLY	322	41.584	46.198	48.889	1.00	60.16	AAAAA	O
ATOM	3060	N	CYS	323	41.719	46.124	46.676	1.00	60.03	AAAAA	N
ATOM	3062	CA	CYS	323	42.938	46.845	46.528	1.00	54.20	AAAAA	C
ATOM	3063	C	CYS	323	42.924	48.307	46.910	1.00	53.48	AAAAA	C
ATOM	3064	O	CYS	323	42.105	49.148	46.503	1.00	56.43	AAAAA	O
ATOM	3065	CB	CYS	323	43.458	46.822	45.086	1.00	53.33	AAAAA	C
ATOM	3066	SG	CYS	323	43.325	45.222	44.248	1.00	66.22	AAAAA	S
ATOM	3067	N	THR	324	43.994	48.718	47.580	1.00	49.83	AAAAA	N
ATOM	3069	CA	THR	324	44.164	50.161	47.811	1.00	52.29	AAAAA	C
ATOM	3070	CB	THR	324	44.623	50.324	49.264	1.00	52.84	AAAAA	C
ATOM	3071	OG1	THR	324	45.245	49.087	49.634	1.00	59.82	AAAAA	O
ATOM	3073	CG2	THR	324	43.432	50.517	50.193	1.00	60.00	AAAAA	C
ATOM	3074	C	THR	324	45.154	50.802	46.844	1.00	48.91	AAAAA	C
ATOM	3075	O	THR	324	45.277	52.016	46.710	1.00	46.90	AAAAA	O
ATOM	3076	N	ILE	325	46.021	49.963	46.254	1.00	46.87	AAAAA	N
ATOM	3078	CA	ILE	325	47.114	50.511	45.445	1.00	45.10	AAAAA	C
ATOM	3079	CB	ILE	325	48.473	50.577	46.183	1.00	43.60	AAAAA	C
ATOM	3080	CG2	ILE	325	49.586	50.905	45.163	1.00	47.47	AAAAA	C
ATOM	3081	CG1	ILE	325	48.394	51.623	47.294	1.00	34.03	AAAAA	C
ATOM	3082	CD1	ILE	325	49.595	52.010	48.028	1.00	41.94	AAAAA	C
ATOM	3083	C	ILE	325	47.265	49.642	44.229	1.00	42.88	AAAAA	C
ATOM	3084	O	ILE	325	47.406	48.429	44.469	1.00	42.99	AAAAA	O
ATOM	3085	N	PHE	326	47.170	50.238	43.042	1.00	41.19	AAAAA	N
ATOM	3087	CA	PHE	326	47.312	49.334	41.880	1.00	42.88	AAAAA	C
ATOM	3088	CB	PHE	326	46.166	49.437	40.877	1.00	39.15	AAAAA	C
ATOM	3089	CG	PHE	326	46.403	48.474	39.738	1.00	38.03	AAAAA	C
ATOM	3090	CD1	PHE	326	46.186	47.125	39.951	1.00	39.68	AAAAA	C
ATOM	3091	CD2	PHE	326	46.917	48.892	38.525	1.00	37.31	AAAAA	C
ATOM	3092	CE1	PHE	326	46.447	46.139	39.023	1.00	36.52	AAAAA	C
ATOM	3093	CE2	PHE	326	47.136	47.919	37.551	1.00	45.74	AAAAA	C
ATOM	3094	CZ	PHE	326	46.924	46.570	37.787	1.00	39.92	AAAAA	C
ATOM	3095	C	PHE	326	48.682	49.673	41.280	1.00	48.78	AAAAA	C
ATOM	3096	O	PHE	326	49.024	50.826	40.966	1.00	51.39	AAAAA	O
ATOM	3097	N	LYS	327	49.623	48.751	41.379	1.00	50.22	AAAAA	N
ATOM	3099	CA	LYS	327	50.964	48.963	40.831	1.00	51.49	AAAAA	C
ATOM	3100	CB	LYS	327	52.050	48.091	41.519	1.00	58.64	AAAAA	C
ATOM	3101	CG	LYS	327	53.254	48.897	41.981	1.00	59.15	AAAAA	C
ATOM	3102	CD	LYS	327	54.528	48.257	41.617	1.00	63.49	AAAAA	C
ATOM	3103	CE	LYS	327	55.400	48.951	40.592	1.00	68.12	AAAAA	C
ATOM	3104	NZ	LYS	327	56.260	47.889	39.938	1.00	71.97	AAAAA	N
ATOM	3108	C	LYS	327	50.895	48.464	39.391	1.00	45.70	AAAAA	C
ATOM	3109	O	LYS	327	50.901	47.245	39.127	1.00	49.55	AAAAA	O
ATOM	3110	N	GLY	328	50.760	49.397	38.502	1.00	39.68	AAAAA	N
ATOM	3112	CA	GLY	328	50.647	49.038	37.080	1.00	39.44	AAAAA	C
ATOM	3113	C	GLY	328	49.845	50.161	36.427	1.00	39.49	AAAAA	C
ATOM	3114	O	GLY	328	49.858	51.307	36.881	1.00	31.92	AAAAA	O
ATOM	3115	N	ASN	329	49.286	49.813	35.289	1.00	41.47	AAAAA	N
ATOM	3117	CA	ASN	329	48.467	50.750	34.543	1.00	45.72	AAAAA	C
ATOM	3118	CB	ASN	329	49.185	50.942	33.211	1.00	42.50	AAAAA	C
ATOM	3119	CG	ASN	329	50.624	51.426	33.357	1.00	42.26	AAAAA	C
ATOM	3120	OD1	ASN	329	50.954	52.331	34.156	1.00	34.77	AAAAA	O
ATOM	3121	ND2	ASN	329	51.425	50.769	32.530	1.00	30.62	AAAAA	N
ATOM	3124	C	ASN	329	47.038	50.207	34.357	1.00	50.37	AAAAA	C
ATOM	3125	O	ASN	329	46.736	49.015	34.119	1.00	50.17	AAAAA	O
ATOM	3126	N	LEU	330	46.090	51.143	34.413	1.00	47.13	AAAAA	N
ATOM	3128	CA	LEU	330	44.691	50.860	34.151	1.00	42.53	AAAAA	C
ATOM	3129	CB	LEU	330	43.751	51.530	35.153	1.00	42.84	AAAAA	C
ATOM	3130	CG	LEU	330	43.768	50.995	36.598	1.00	38.65	AAAAA	C
ATOM	3131	CD1	LEU	330	42.864	51.924	37.417	1.00	38.12	AAAAA	C
ATOM	3132	CD2	LEU	330	43.283	49.565	36.669	1.00	38.74	AAAAA	C
ATOM	3133	C									

ATOM	3140	CD1	LEU	331	43.501	51.319	27.627	1.00	46.64	AAAAA	C
ATOM	3141	CD2	LEU	331	43.844	48.834	27.367	1.00	48.76	AAAAA	C
ATOM	3142	C	LEU	331	41.872	50.568	30.705	1.00	41.12	AAAAA	C
ATOM	3143	O	LEU	331	41.562	49.365	30.779	1.00	40.08	AAAAA	O
ATOM	3144	N	ILE	332	41.029	51.566	30.862	1.00	41.13	AAAAA	N
ATOM	3146	CA	ILE	332	39.606	51.241	31.044	1.00	36.90	AAAAA	C
ATOM	3147	CB	ILE	332	38.885	52.085	32.076	1.00	34.77	AAAAA	C
ATOM	3148	CG2	ILE	332	37.413	51.612	32.195	1.00	34.66	AAAAA	C
ATOM	3149	CG1	ILE	332	39.550	51.895	33.452	1.00	33.64	AAAAA	C
ATOM	3150	CD1	ILE	332	39.479	53.152	34.337	1.00	48.21	AAAAA	C
ATOM	3151	C	ILE	332	38.959	51.367	29.688	1.00	34.03	AAAAA	C
ATOM	3152	O	ILE	332	38.867	52.489	29.200	1.00	35.89	AAAAA	O
ATOM	3153	N	ASN	333	38.569	50.273	29.094	1.00	35.25	AAAAA	N
ATOM	3155	CA	ASN	333	38.014	50.283	27.737	1.00	40.34	AAAAA	C
ATOM	3156	CB	ASN	333	38.960	49.499	26.797	1.00	50.50	AAAAA	C
ATOM	3157	CG	ASN	333	38.668	49.493	25.310	1.00	59.29	AAAAA	C
ATOM	3158	OD1	ASN	333	37.845	48.711	24.784	1.00	64.54	AAAAA	O
ATOM	3159	ND2	ASN	333	39.290	50.350	24.467	1.00	45.83	AAAAA	N
ATOM	3162	C	ASN	333	36.666	49.581	27.755	1.00	47.63	AAAAA	C
ATOM	3163	O	ASN	333	36.462	48.409	27.398	1.00	44.40	AAAAA	O
ATOM	3164	N	ILE	334	35.644	50.213	28.315	1.00	54.13	AAAAA	N
ATOM	3166	CA	ILE	334	34.332	49.537	28.460	1.00	59.07	AAAAA	C
ATOM	3167	CB	ILE	334	33.788	49.826	29.876	1.00	61.98	AAAAA	C
ATOM	3168	CG2	ILE	334	32.362	49.355	30.047	1.00	54.04	AAAAA	C
ATOM	3169	CG1	ILE	334	34.737	49.224	30.915	1.00	60.43	AAAAA	C
ATOM	3170	CD1	ILE	334	34.346	49.687	32.317	1.00	68.57	AAAAA	C
ATOM	3171	C	ILE	334	33.271	50.032	27.476	1.00	59.45	AAAAA	C
ATOM	3172	O	ILE	334	32.726	51.136	27.635	1.00	56.22	AAAAA	O
ATOM	3173	N	ARG	335	32.919	49.181	26.550	1.00	59.69	AAAAA	N
ATOM	3175	CA	ARG	335	31.910	49.567	25.573	1.00	73.93	AAAAA	C
ATOM	3176	CB	ARG	335	32.262	48.903	24.240	1.00	74.44	AAAAA	C
ATOM	3177	CG	ARG	335	33.729	48.932	23.918	1.00	82.97	AAAAA	C
ATOM	3178	CD	ARG	335	34.102	49.289	22.500	1.00	86.49	AAAAA	C
ATOM	3179	NE	ARG	335	34.361	48.040	21.777	1.00	89.83	AAAAA	N
ATOM	3181	CZ	ARG	335	34.011	47.838	20.496	1.00	93.67	AAAAA	C
ATOM	3182	NH1	ARG	335	33.409	48.852	19.843	1.00	87.24	AAAAA	N
ATOM	3185	NH2	ARG	335	34.256	46.674	19.877	1.00	75.31	AAAAA	N
ATOM	3188	C	ARG	335	30.492	49.233	26.021	1.00	81.52	AAAAA	C
ATOM	3189	O	ARG	335	29.664	50.115	26.239	1.00	84.11	AAAAA	O
ATOM	3190	N	ALA	336	30.208	47.953	26.234	1.00	87.51	AAAAA	N
ATOM	3192	CA	ALA	336	28.878	47.484	26.601	1.00	92.40	AAAAA	C
ATOM	3193	CB	ALA	336	28.835	45.980	26.633	1.00	94.03	AAAAA	C
ATOM	3194	C	ALA	336	28.479	48.058	27.953	1.00	96.61	AAAAA	C
ATOM	3195	O	ALA	336	29.316	48.019	28.855	1.00	96.96	AAAAA	O
ATOM	3196	N	GLY	337	27.298	48.685	28.039	1.00	99.74	AAAAA	N
ATOM	3198	CA	GLY	337	26.986	49.385	29.272	1.00	103.11	AAAAA	C
ATOM	3199	C	GLY	337	25.568	49.303	29.763	1.00	105.51	AAAAA	C
ATOM	3200	O	GLY	337	24.801	50.267	29.596	1.00	106.64	AAAAA	O
ATOM	3201	N	ASN	338	25.243	48.146	30.346	1.00	105.41	AAAAA	N
ATOM	3203	CA	ASN	338	23.886	48.017	30.908	1.00	106.92	AAAAA	C
ATOM	3204	CB	ASN	338	23.714	46.689	31.624	1.00	109.14	AAAAA	C
ATOM	3205	CG	ASN	338	24.403	45.544	30.928	1.00	112.30	AAAAA	C
ATOM	3206	OD1	ASN	338	25.598	45.595	30.625	1.00	117.94	AAAAA	O
ATOM	3207	ND2	ASN	338	23.604	44.508	30.683	1.00	113.72	AAAAA	N
ATOM	3210	C	ASN	338	23.790	49.160	31.931	1.00	105.84	AAAAA	C
ATOM	3211	O	ASN	338	23.544	50.345	31.739	1.00	103.97	AAAAA	O
ATOM	3212	N	ASN	339	24.290	48.762	33.099	1.00	105.47	AAAAA	N
ATOM	3214	CA	ASN	339	24.529	49.740	34.159	1.00	107.10	AAAAA	C
ATOM	3215	CB	ASN	339	23.252	49.915	34.945	1.00	109.15	AAAAA	C
ATOM	3216	CG	ASN	339	22.777	51.351	35.003	0.01	107.52	AAAAA	C
ATOM	3217	OD1	ASN	339	22.715	51.931	36.088	0.01	107.49	AAAAA	O
ATOM	3218	ND2	ASN	339	22.441	51.932	33.859	0.01	107.46	AAAAA	N
ATOM	3221	C	ASN	339	25.697	49.237	35.007	1.00	106.33	AAAAA	C
ATOM	3222	O	ASN	339	25.520	48.390	35.886	1.00	108.82	AAAAA	O
ATOM	3223	N	ILE	340	26.897	49.527	34.510	1.00	101.36	AAAAA	N
ATOM	3225	CA	ILE	340	28.136	49.101	35.138	1.00	97.43	AAAAA	C
ATOM	3226	CB	ILE	340	29.040	48.354	34.151	1.00	93.63	AAAAA	C
ATOM	3227	CG2	ILE	340	28.194	47.252	33.489	1.00	99.38	AAAAA	C
ATOM	3228	CG1	ILE	340	29.726	49.158	33.070	1.00	85.50	AAAAA	C
ATOM	3229	CD1	ILE	340	28.897	49.634	31.915	1.00	92.53	AAAAA	C
ATOM	3230	C	ILE	340	28.783	50.357	35.706	1.00	95.32	AAAAA	C
ATOM	3231	O	ILE	340	29.472	51.099	34.997	1.00	97.86	AAAAA	O
ATOM	3232	N									

ATOM	3240	CA	SER	342	27.910	50.601	40.780	1.00	82.05	AAAAA	C
ATOM	3241	CB	SER	342	26.426	50.667	41.112	1.00	85.51	AAAAA	C
ATOM	3242	OG	SER	342	26.145	51.271	42.361	1.00	86.02	AAAAA	O
ATOM	3244	C	SER	342	28.487	49.196	40.965	1.00	76.62	AAAAA	C
ATOM	3245	O	SER	342	29.119	48.966	41.964	1.00	71.76	AAAAA	O
ATOM	3246	N	GLU	343	28.373	48.409	39.905	1.00	76.23	AAAAA	N
ATOM	3248	CA	GLU	343	29.001	47.109	39.820	1.00	74.59	AAAAA	C
ATOM	3249	CB	GLU	343	28.595	46.300	38.616	1.00	78.62	AAAAA	C
ATOM	3250	CG	GLU	343	27.118	46.105	38.316	1.00	85.33	AAAAA	C
ATOM	3251	CD	GLU	343	26.898	45.121	37.169	1.00	92.76	AAAAA	C
ATOM	3252	OE1	GLU	343	27.209	43.911	37.310	1.00	96.41	AAAAA	O
ATOM	3253	OE2	GLU	343	26.423	45.517	36.082	1.00	98.55	AAAAA	O
ATOM	3254	C	GLU	343	30.525	47.319	39.804	1.00	77.75	AAAAA	C
ATOM	3255	O	GLU	343	31.273	46.787	40.637	1.00	75.73	AAAAA	O
ATOM	3256	N	LEU	344	31.022	48.237	38.966	1.00	75.65	AAAAA	N
ATOM	3258	CA	LEU	344	32.415	48.596	38.839	1.00	72.36	AAAAA	C
ATOM	3259	CB	LEU	344	32.760	49.697	37.808	1.00	64.33	AAAAA	C
ATOM	3260	CG	LEU	344	32.687	49.397	36.311	1.00	50.12	AAAAA	C
ATOM	3261	CD1	LEU	344	33.224	50.577	35.519	1.00	57.00	AAAAA	C
ATOM	3262	CD2	LEU	344	33.401	48.127	35.905	1.00	51.62	AAAAA	C
ATOM	3263	C	LEU	344	32.963	49.130	40.174	1.00	69.74	AAAAA	C
ATOM	3264	O	LEU	344	34.079	48.739	40.551	1.00	69.12	AAAAA	O
ATOM	3265	N	GLU	345	32.166	49.959	40.822	1.00	63.10	AAAAA	N
ATOM	3267	CA	GLU	345	32.555	50.591	42.061	1.00	65.42	AAAAA	C
ATOM	3268	CB	GLU	345	31.592	51.714	42.478	1.00	55.59	AAAAA	C
ATOM	3269	CG	GLU	345	32.267	52.607	43.486	1.00	68.78	AAAAA	C
ATOM	3270	CD	GLU	345	31.324	53.374	44.376	1.00	81.31	AAAAA	C
ATOM	3271	OE1	GLU	345	30.614	54.320	43.976	1.00	85.60	AAAAA	O
ATOM	3272	OE2	GLU	345	31.237	53.078	45.595	1.00	88.79	AAAAA	O
ATOM	3273	C	GLU	345	32.706	49.652	43.255	1.00	63.31	AAAAA	C
ATOM	3274	O	GLU	345	33.501	49.913	44.134	1.00	60.06	AAAAA	O
ATOM	3275	N	ASN	346	32.151	48.462	43.202	1.00	62.25	AAAAA	N
ATOM	3277	CA	ASN	346	32.285	47.403	44.173	1.00	63.82	AAAAA	C
ATOM	3278	CB	ASN	346	31.024	46.498	44.095	1.00	61.66	AAAAA	C
ATOM	3279	CG	ASN	346	31.110	45.292	45.006	1.00	58.73	AAAAA	C
ATOM	3280	OD1	ASN	346	31.188	45.352	46.224	1.00	69.11	AAAAA	O
ATOM	3281	ND2	ASN	346	31.155	44.092	44.444	1.00	51.10	AAAAA	N
ATOM	3284	C	ASN	346	33.532	46.580	43.870	1.00	63.71	AAAAA	C
ATOM	3285	O	ASN	346	33.636	45.336	43.905	1.00	65.65	AAAAA	O
ATOM	3286	N	PHE	347	34.419	47.173	43.066	1.00	63.23	AAAAA	N
ATOM	3288	CA	PHE	347	35.540	46.411	42.506	1.00	61.39	AAAAA	C
ATOM	3289	CB	PHE	347	35.123	45.854	41.170	1.00	61.38	AAAAA	C
ATOM	3290	CG	PHE	347	34.457	44.534	41.142	1.00	65.57	AAAAA	C
ATOM	3291	CD1	PHE	347	33.090	44.438	40.982	1.00	75.25	AAAAA	C
ATOM	3292	CD2	PHE	347	35.148	43.351	41.267	1.00	77.15	AAAAA	C
ATOM	3293	CE1	PHE	347	32.425	43.224	40.951	1.00	75.55	AAAAA	C
ATOM	3294	CE2	PHE	347	34.512	42.130	41.249	1.00	72.86	AAAAA	C
ATOM	3295	CZ	PHE	347	33.152	42.051	41.095	1.00	72.74	AAAAA	C
ATOM	3296	C	PHE	347	36.712	47.375	42.440	1.00	57.70	AAAAA	C
ATOM	3297	O	PHE	347	37.770	46.820	42.354	1.00	59.92	AAAAA	O
ATOM	3298	N	MET	348	36.482	48.676	42.319	1.00	50.56	AAAAA	N
ATOM	3300	CA	MET	348	37.500	49.630	41.964	1.00	42.86	AAAAA	C
ATOM	3301	CB	MET	348	37.402	50.096	40.493	1.00	31.72	AAAAA	C
ATOM	3302	CG	MET	348	37.426	48.933	39.471	1.00	33.42	AAAAA	C
ATOM	3303	SD	MET	348	37.566	49.448	37.732	1.00	44.79	AAAAA	S
ATOM	3304	CE	MET	348	38.408	50.999	37.791	1.00	59.57	AAAAA	C
ATOM	3305	C	MET	348	37.368	50.831	42.867	1.00	45.88	AAAAA	C
ATOM	3306	O	MET	348	38.210	51.772	42.901	1.00	43.33	AAAAA	O
ATOM	3307	N	GLY	349	36.296	50.783	43.683	1.00	45.30	AAAAA	N
ATOM	3309	CA	GLY	349	35.998	51.965	44.504	1.00	49.19	AAAAA	C
ATOM	3310	C	GLY	349	36.980	52.189	45.620	1.00	52.77	AAAAA	C
ATOM	3311	O	GLY	349	37.033	53.299	46.156	1.00	53.43	AAAAA	O
ATOM	3312	N	LEU	350	37.791	51.159	45.925	1.00	56.17	AAAAA	N
ATOM	3314	CA	LEU	350	38.735	51.256	47.021	1.00	58.04	AAAAA	C
ATOM	3315	CB	LEU	350	38.873	49.949	47.834	1.00	49.00	AAAAA	C
ATOM	3316	CG	LEU	350	37.871	50.020	49.031	1.00	50.79	AAAAA	C
ATOM	3317	CD1	LEU	350	37.705	48.680	49.700	1.00	52.92	AAAAA	C
ATOM	3318	CD2	LEU	350	38.247	51.106	50.038	1.00	56.11	AAAAA	C
ATOM	3319	C	LEU	350	40.144	51.727	46.685	1.00	61.34	AAAAA	C
ATOM	3320	O	LEU	350	40.931	51.962	47.618	1.00	63.52	AAAAA	O
ATOM	3321	N	ILE	351	40.446	51.677	45.372	1.00	57.89	AAAAA	N
ATOM	3323	CA	ILE	351	41.729	52.088	44.873	1.00	48.69	AAAAA	C
ATOM	3324										

ATOM	3330	N	GLU	352	43.002	53.866	46.015	1.00	50.61	AAAAA	N
ATOM	3332	CA	GLU	352	43.381	55.241	46.248	1.00	51.20	AAAAA	C
ATOM	3333	CB	GLU	352	43.907	55.353	47.678	1.00	52.12	AAAAA	C
ATOM	3334	CG	GLU	352	42.912	55.769	48.735	1.00	65.55	AAAAA	C
ATOM	3335	CD	GLU	352	43.034	54.834	49.947	1.00	71.49	AAAAA	C
ATOM	3336	OE1	GLU	352	43.881	55.244	50.765	1.00	66.09	AAAAA	O
ATOM	3337	OE2	GLU	352	42.330	53.799	50.009	1.00	76.07	AAAAA	O
ATOM	3338	C	GLU	352	44.502	55.751	45.314	1.00	47.43	AAAAA	C
ATOM	3339	O	GLU	352	44.798	56.951	45.182	1.00	40.38	AAAAA	O
ATOM	3340	N	VAL	353	45.342	54.838	44.852	1.00	43.54	AAAAA	N
ATOM	3342	CA	VAL	353	46.512	55.236	44.078	1.00	43.71	AAAAA	C
ATOM	3343	CB	VAL	353	47.759	55.540	44.911	1.00	45.01	AAAAA	C
ATOM	3344	CG1	VAL	353	47.766	55.261	46.387	1.00	30.84	AAAAA	C
ATOM	3345	CG2	VAL	353	48.988	54.844	44.310	1.00	42.55	AAAAA	C
ATOM	3346	C	VAL	353	46.828	54.233	42.957	1.00	41.41	AAAAA	C
ATOM	3347	O	VAL	353	46.843	53.003	43.172	1.00	39.19	AAAAA	O
ATOM	3348	N	VAL	354	47.074	54.855	41.816	1.00	36.31	AAAAA	N
ATOM	3350	CA	VAL	354	47.586	54.092	40.651	1.00	43.97	AAAAA	C
ATOM	3351	CB	VAL	354	46.725	54.390	39.407	1.00	40.86	AAAAA	C
ATOM	3352	CG1	VAL	354	47.347	53.896	38.123	1.00	36.72	AAAAA	C
ATOM	3353	CG2	VAL	354	45.293	53.849	39.678	1.00	35.35	AAAAA	C
ATOM	3354	C	VAL	354	49.043	54.510	40.388	1.00	44.56	AAAAA	C
ATOM	3355	O	VAL	354	49.366	55.718	40.288	1.00	43.32	AAAAA	O
ATOM	3356	N	THR	355	49.972	53.561	40.431	1.00	43.83	AAAAA	N
ATOM	3358	CA	THR	355	51.392	53.914	40.284	1.00	44.85	AAAAA	C
ATOM	3359	CB	THR	355	52.374	52.799	40.653	1.00	42.40	AAAAA	C
ATOM	3360	OG1	THR	355	52.273	51.744	39.695	1.00	45.30	AAAAA	O
ATOM	3362	CG2	THR	355	52.210	52.194	42.039	1.00	38.13	AAAAA	C
ATOM	3363	C	THR	355	51.746	54.339	38.851	1.00	43.84	AAAAA	C
ATOM	3364	O	THR	355	52.463	55.334	38.697	1.00	44.26	AAAAA	O
ATOM	3365	N	GLY	356	51.127	53.704	37.870	1.00	41.16	AAAAA	N
ATOM	3367	CA	GLY	356	51.358	54.073	36.470	1.00	37.81	AAAAA	C
ATOM	3368	C	GLY	356	50.505	55.204	35.955	1.00	38.07	AAAAA	C
ATOM	3369	O	GLY	356	50.364	56.261	36.615	1.00	34.65	AAAAA	O
ATOM	3370	N	TYR	357	49.910	55.004	34.800	1.00	38.47	AAAAA	N
ATOM	3372	CA	TYR	357	48.982	55.973	34.205	1.00	38.03	AAAAA	C
ATOM	3373	CB	TYR	357	49.557	56.343	32.805	1.00	31.44	AAAAA	C
ATOM	3374	CG	TYR	357	49.473	55.219	31.812	1.00	33.04	AAAAA	C
ATOM	3375	CD1	TYR	357	48.333	54.842	31.077	1.00	32.86	AAAAA	C
ATOM	3376	CE1	TYR	357	48.352	53.779	30.175	1.00	32.83	AAAAA	C
ATOM	3377	CD2	TYR	357	50.639	54.465	31.606	1.00	34.28	AAAAA	C
ATOM	3378	CE2	TYR	357	50.706	53.402	30.720	1.00	32.51	AAAAA	C
ATOM	3379	CZ	TYR	357	49.552	53.068	30.007	1.00	37.26	AAAAA	C
ATOM	3380	OH	TYR	357	49.726	51.997	29.166	1.00	35.85	AAAAA	O
ATOM	3382	C	TYR	357	47.582	55.368	34.150	1.00	38.55	AAAAA	C
ATOM	3383	O	TYR	357	47.458	54.127	34.088	1.00	36.11	AAAAA	O
ATOM	3384	N	VAL	358	46.593	56.216	33.814	1.00	40.98	AAAAA	N
ATOM	3386	CA	VAL	358	45.197	55.798	33.639	1.00	38.90	AAAAA	C
ATOM	3387	CB	VAL	358	44.211	56.502	34.610	1.00	49.15	AAAAA	C
ATOM	3388	CG1	VAL	358	42.815	55.883	34.484	1.00	33.12	AAAAA	C
ATOM	3389	CG2	VAL	358	44.748	56.437	36.043	1.00	29.20	AAAAA	C
ATOM	3390	C	VAL	358	44.760	56.194	32.234	1.00	35.64	AAAAA	C
ATOM	3391	O	VAL	358	44.792	57.358	31.888	1.00	34.58	AAAAA	O
ATOM	3392	N	LYS	359	44.387	55.188	31.461	1.00	36.00	AAAAA	N
ATOM	3394	CA	LYS	359	43.898	55.419	30.117	1.00	41.27	AAAAA	C
ATOM	3395	CB	LYS	359	44.845	54.707	29.174	1.00	37.40	AAAAA	C
ATOM	3396	CG	LYS	359	44.340	54.473	27.770	1.00	45.19	AAAAA	C
ATOM	3397	CD	LYS	359	45.040	55.317	26.750	1.00	43.40	AAAAA	C
ATOM	3398	CE	LYS	359	45.958	54.402	25.986	1.00	43.56	AAAAA	C
ATOM	3399	NZ	LYS	359	45.416	53.937	24.680	1.00	47.98	AAAAA	N
ATOM	3403	C	LYS	359	42.423	54.979	29.939	1.00	42.14	AAAAA	C
ATOM	3404	O	LYS	359	42.056	53.791	30.006	1.00	40.40	AAAAA	O
ATOM	3405	N	ILE	360	41.602	55.974	29.572	1.00	37.16	AAAAA	N
ATOM	3407	CA	ILE	360	40.164	55.742	29.334	1.00	40.02	AAAAA	C
ATOM	3408	CB	ILE	360	39.297	56.804	30.048	1.00	38.10	AAAAA	C
ATOM	3409	CG2	ILE	360	37.887	56.277	29.932	1.00	39.42	AAAAA	C
ATOM	3410	CG1	ILE	360	39.769	57.111	31.481	1.00	28.54	AAAAA	C
ATOM	3411	CD1	ILE	360	39.423	56.037	32.491	1.00	33.16	AAAAA	C
ATOM	3412	C	ILE	360	39.888	55.837	27.834	1.00	39.49	AAAAA	C
ATOM	3413	O	ILE	360	40.014	56.942	27.235	1.00	37.32	AAAAA	O
ATOM	3414	N	ARG	361	39.567	54.721	27.221	1.00	34.34	AAAAA	N
ATOM	3416	CA	ARG	361	39.472	54.782	25.744	1.00	41.24	AAAAA	C
ATOM	3417										

ATOM	3426	NH2	ARG	361	41.834	49.719	23.631	1.00	54.52	AAAAA	N
ATOM	3429	C	ARG	361	38.382	53.866	25.246	1.00	42.06	AAAAA	C
ATOM	3430	O	ARG	361	38.336	52.661	25.499	1.00	38.93	AAAAA	O
ATOM	3431	N	HIS	362	37.514	54.342	24.373	1.00	46.19	AAAAA	N
ATOM	3433	CA	HIS	362	36.372	53.555	23.885	1.00	49.34	AAAAA	C
ATOM	3434	CB	HIS	362	37.000	52.300	23.266	1.00	40.94	AAAAA	C
ATOM	3435	CG	HIS	362	37.849	52.610	22.084	1.00	42.78	AAAAA	C
ATOM	3436	CD2	HIS	362	38.049	53.765	21.411	1.00	48.32	AAAAA	C
ATOM	3437	ND1	HIS	362	38.628	51.676	21.469	1.00	43.59	AAAAA	N
ATOM	3439	CE1	HIS	362	39.256	52.247	20.465	1.00	46.01	AAAAA	C
ATOM	3440	NE2	HIS	362	38.923	53.515	20.408	1.00	49.22	AAAAA	N
ATOM	3442	C	HIS	362	35.295	53.113	24.913	1.00	50.32	AAAAA	C
ATOM	3443	O	HIS	362	34.686	52.030	24.795	1.00	41.31	AAAAA	O
ATOM	3444	N	SER	363	35.222	53.875	26.013	1.00	46.96	AAAAA	N
ATOM	3446	CA	SER	363	34.402	53.456	27.139	1.00	52.19	AAAAA	C
ATOM	3447	CB	SER	363	35.231	53.837	28.400	1.00	53.73	AAAAA	C
ATOM	3448	OG	SER	363	35.713	52.558	28.816	1.00	41.72	AAAAA	O
ATOM	3450	C	SER	363	33.005	54.072	27.046	1.00	49.08	AAAAA	C
ATOM	3451	O	SER	363	32.653	55.040	27.694	1.00	37.49	AAAAA	O
ATOM	3452	N	HIS	364	32.243	53.577	26.058	1.00	52.25	AAAAA	N
ATOM	3454	CA	HIS	364	30.954	54.173	25.717	1.00	53.66	AAAAA	C
ATOM	3455	C	HIS	364	29.879	53.937	26.760	1.00	48.77	AAAAA	C
ATOM	3456	O	HIS	364	29.297	54.899	27.280	1.00	51.44	AAAAA	O
ATOM	3457	CB	HIS	364	30.485	53.699	24.348	1.00	49.83	AAAAA	C
ATOM	3458	CG	HIS	364	31.493	54.182	23.338	1.00	51.51	AAAAA	C
ATOM	3459	ND1	HIS	364	31.870	55.502	23.156	1.00	44.83	AAAAA	N
ATOM	3460	CE1	HIS	364	32.798	55.533	22.214	1.00	28.57	AAAAA	C
ATOM	3461	CD2	HIS	364	32.194	53.393	22.472	1.00	38.62	AAAAA	C
ATOM	3462	NE2	HIS	364	32.992	54.274	21.810	1.00	41.44	AAAAA	N
ATOM	3464	N	ALA	365	29.949	52.819	27.427	1.00	47.53	AAAAA	N
ATOM	3466	CA	ALA	365	29.211	52.488	28.621	1.00	44.41	AAAAA	C
ATOM	3467	CB	ALA	365	29.678	51.133	29.150	1.00	40.28	AAAAA	C
ATOM	3468	C	ALA	365	29.318	53.473	29.768	1.00	44.70	AAAAA	C
ATOM	3469	O	ALA	365	28.576	53.206	30.726	1.00	45.28	AAAAA	O
ATOM	3470	N	LEU	366	30.158	54.517	29.762	1.00	40.80	AAAAA	N
ATOM	3472	CA	LEU	366	30.415	55.243	30.968	1.00	42.21	AAAAA	C
ATOM	3473	CB	LEU	366	31.885	55.241	31.350	1.00	43.78	AAAAA	C
ATOM	3474	CG	LEU	366	32.740	54.037	31.667	1.00	51.52	AAAAA	C
ATOM	3475	CD1	LEU	366	34.192	54.373	32.043	1.00	51.77	AAAAA	C
ATOM	3476	CD2	LEU	366	32.118	53.305	32.834	1.00	51.17	AAAAA	C
ATOM	3477	C	LEU	366	29.974	56.687	30.896	1.00	46.36	AAAAA	C
ATOM	3478	O	LEU	366	30.305	57.248	29.849	1.00	48.40	AAAAA	O
ATOM	3479	N	VAL	367	29.521	57.275	32.015	1.00	43.68	AAAAA	N
ATOM	3481	CA	VAL	367	29.072	58.675	31.940	1.00	44.18	AAAAA	C
ATOM	3482	CB	VAL	367	27.557	58.727	32.376	1.00	48.80	AAAAA	C
ATOM	3483	CG1	VAL	367	26.923	60.073	32.571	1.00	41.69	AAAAA	C
ATOM	3484	CG2	VAL	367	26.697	57.949	31.365	1.00	34.00	AAAAA	C
ATOM	3485	C	VAL	367	29.923	59.518	32.845	1.00	44.90	AAAAA	C
ATOM	3486	O	VAL	367	29.965	60.751	32.720	1.00	44.75	AAAAA	O
ATOM	3487	N	SER	368	30.591	58.818	33.757	1.00	48.72	AAAAA	N
ATOM	3489	CA	SER	368	31.487	59.465	34.742	1.00	52.70	AAAAA	C
ATOM	3490	CB	SER	368	30.658	59.706	36.000	1.00	55.32	AAAAA	C
ATOM	3491	OG	SER	368	31.300	60.298	37.091	1.00	64.86	AAAAA	O
ATOM	3493	C	SER	368	32.590	58.497	35.179	1.00	52.76	AAAAA	C
ATOM	3494	O	SER	368	32.352	57.299	34.976	1.00	48.99	AAAAA	O
ATOM	3495	N	LEU	369	33.631	59.012	35.831	1.00	53.86	AAAAA	N
ATOM	3497	CA	LEU	369	34.716	58.129	36.274	1.00	60.15	AAAAA	C
ATOM	3498	CB	LEU	369	36.073	58.630	35.784	1.00	55.91	AAAAA	C
ATOM	3499	CG	LEU	369	36.325	58.736	34.271	1.00	45.96	AAAAA	C
ATOM	3500	CD1	LEU	369	37.669	59.428	34.154	1.00	53.97	AAAAA	C
ATOM	3501	CD2	LEU	369	36.207	57.384	33.619	1.00	38.77	AAAAA	C
ATOM	3502	C	LEU	369	34.645	58.036	37.811	1.00	62.52	AAAAA	C
ATOM	3503	O	LEU	369	35.569	57.700	38.595	1.00	59.33	AAAAA	O
ATOM	3504	N	SER	370	33.437	58.401	38.285	1.00	56.26	AAAAA	N
ATOM	3506	CA	SER	370	33.089	58.431	39.690	1.00	53.88	AAAAA	C
ATOM	3507	CB	SER	370	31.673	59.052	39.816	1.00	57.50	AAAAA	C
ATOM	3508	OG	SER	370	30.771	58.061	39.261	1.00	69.12	AAAAA	O
ATOM	3510	C	SER	370	33.060	57.085	40.412	1.00	47.97	AAAAA	C
ATOM	3511	O	SER	370	33.228	56.943	41.596	1.00	41.93	AAAAA	O
ATOM	3512	N	PHE	371	32.967	55.936	39.792	1.00	45.48	AAAAA	N
ATOM	3514	CA	PHE	371	33.223	54.643	40.356	1.00	46.29	AAAAA	C
ATOM	3515	CB	PHE	371	32.952	53.596	39.287	1.00	43.53	AAAAA	C
ATOM											

ATOM	3522	C	PHE	371	34.654	54.467	40.895	1.00	54.84	AAAAA	C
ATOM	3523	O	PHE	371	35.005	53.592	41.728	1.00	52.23	AAAAA	O
ATOM	3524	N	LEU	372	35.633	55.305	40.510	1.00	50.17	AAAAA	N
ATOM	3526	CA	LEU	372	36.928	55.395	41.109	1.00	46.25	AAAAA	C
ATOM	3527	CB	LEU	372	38.171	55.812	40.276	1.00	44.82	AAAAA	C
ATOM	3528	CG	LEU	372	38.411	54.800	39.114	1.00	36.78	AAAAA	C
ATOM	3529	CD1	LEU	372	38.853	55.643	37.934	1.00	45.04	AAAAA	C
ATOM	3530	CD2	LEU	372	39.260	53.657	39.565	1.00	35.55	AAAAA	C
ATOM	3531	C	LEU	372	36.715	56.392	42.243	1.00	42.26	AAAAA	C
ATOM	3532	O	LEU	372	37.224	57.507	42.364	1.00	38.37	AAAAA	O
ATOM	3533	N	LYS	373	35.970	55.862	43.192	1.00	47.06	AAAAA	N
ATOM	3535	CA	LYS	373	35.527	56.509	44.415	1.00	50.19	AAAAA	C
ATOM	3536	CB	LYS	373	34.546	55.521	45.077	1.00	56.74	AAAAA	C
ATOM	3537	CG	LYS	373	33.645	56.162	46.119	1.00	59.64	AAAAA	C
ATOM	3538	CD	LYS	373	32.529	56.955	45.441	0.01	60.17	AAAAA	C
ATOM	3539	CE	LYS	373	31.674	57.687	46.460	0.01	60.45	AAAAA	C
ATOM	3540	NZ	LYS	373	31.083	58.933	45.899	0.01	60.38	AAAAA	N
ATOM	3544	C	LYS	373	36.646	56.863	45.366	1.00	49.72	AAAAA	C
ATOM	3545	O	LYS	373	36.636	57.960	45.907	1.00	42.42	AAAAA	O
ATOM	3546	N	ASN	374	37.657	55.986	45.513	1.00	54.43	AAAAA	N
ATOM	3548	CA	ASN	374	38.765	56.352	46.410	1.00	59.92	AAAAA	C
ATOM	3549	CB	ASN	374	39.080	55.154	47.314	1.00	63.16	AAAAA	C
ATOM	3550	CG	ASN	374	38.009	54.978	48.396	1.00	64.53	AAAAA	C
ATOM	3551	OD1	ASN	374	37.892	53.972	49.096	1.00	66.40	AAAAA	O
ATOM	3552	ND2	ASN	374	37.160	55.965	48.578	1.00	52.88	AAAAA	N
ATOM	3555	C	ASN	374	40.043	56.892	45.786	1.00	62.35	AAAAA	C
ATOM	3556	O	ASN	374	41.031	57.223	46.479	1.00	63.08	AAAAA	O
ATOM	3557	N	LEU	375	40.091	56.893	44.438	1.00	58.34	AAAAA	N
ATOM	3559	CA	LEU	375	41.305	57.374	43.795	1.00	54.73	AAAAA	C
ATOM	3560	CB	LEU	375	41.099	57.359	42.288	1.00	56.41	AAAAA	C
ATOM	3561	CG	LEU	375	42.396	57.422	41.459	1.00	54.12	AAAAA	C
ATOM	3562	CD1	LEU	375	43.135	56.112	41.689	1.00	37.88	AAAAA	C
ATOM	3563	CD2	LEU	375	42.030	57.796	40.041	1.00	40.97	AAAAA	C
ATOM	3564	C	LEU	375	41.712	58.754	44.245	1.00	52.37	AAAAA	C
ATOM	3565	O	LEU	375	41.151	59.777	43.877	1.00	52.11	AAAAA	O
ATOM	3566	N	ARG	376	42.801	58.874	44.982	1.00	55.16	AAAAA	N
ATOM	3568	CA	ARG	376	43.320	60.155	45.434	1.00	55.45	AAAAA	C
ATOM	3569	CB	ARG	376	43.706	60.222	46.928	1.00	58.68	AAAAA	C
ATOM	3570	CG	ARG	376	44.288	58.907	47.415	1.00	69.10	AAAAA	C
ATOM	3571	CD	ARG	376	44.286	58.817	48.944	1.00	81.17	AAAAA	C
ATOM	3572	NE	ARG	376	45.377	57.926	49.410	1.00	84.46	AAAAA	N
ATOM	3574	CZ	ARG	376	46.618	58.380	49.598	1.00	85.64	AAAAA	C
ATOM	3575	NH1	ARG	376	46.966	59.645	49.383	1.00	81.84	AAAAA	N
ATOM	3578	NH2	ARG	376	47.571	57.548	50.012	1.00	94.15	AAAAA	N
ATOM	3581	C	ARG	376	44.556	60.544	44.633	1.00	50.16	AAAAA	C
ATOM	3582	O	ARG	376	44.746	61.728	44.465	1.00	44.25	AAAAA	O
ATOM	3583	N	LEU	377	45.375	59.578	44.219	1.00	50.99	AAAAA	N
ATOM	3585	CA	LEU	377	46.526	59.942	43.379	1.00	49.40	AAAAA	C
ATOM	3586	CB	LEU	377	47.596	60.411	44.329	1.00	64.72	AAAAA	C
ATOM	3587	CG	LEU	377	48.806	59.577	44.667	1.00	70.76	AAAAA	C
ATOM	3588	CD1	LEU	377	50.031	60.157	43.954	1.00	63.32	AAAAA	C
ATOM	3589	CD2	LEU	377	49.010	59.696	46.179	1.00	68.60	AAAAA	C
ATOM	3590	C	LEU	377	47.043	59.022	42.311	1.00	46.33	AAAAA	C
ATOM	3591	O	LEU	377	46.868	57.788	42.286	1.00	45.17	AAAAA	O
ATOM	3592	N	ILE	378	47.448	59.675	41.199	1.00	45.12	AAAAA	N
ATOM	3594	CA	ILE	378	48.042	58.976	40.042	1.00	49.10	AAAAA	C
ATOM	3595	CB	ILE	378	47.342	59.303	38.724	1.00	46.36	AAAAA	C
ATOM	3596	CG2	ILE	378	48.115	58.696	37.574	1.00	34.36	AAAAA	C
ATOM	3597	CG1	ILE	378	45.871	58.862	38.829	1.00	38.59	AAAAA	C
ATOM	3598	CD1	ILE	378	44.999	59.515	37.765	1.00	37.18	AAAAA	C
ATOM	3599	C	ILE	378	49.524	59.381	40.003	1.00	49.87	AAAAA	C
ATOM	3600	O	ILE	378	49.801	60.595	40.040	1.00	44.72	AAAAA	O
ATOM	3601	N	LEU	379	50.454	58.423	40.067	1.00	49.97	AAAAA	N
ATOM	3603	CA	LEU	379	51.866	58.712	40.344	1.00	48.48	AAAAA	C
ATOM	3604	CB	LEU	379	52.575	57.531	41.054	1.00	48.44	AAAAA	C
ATOM	3605	CG	LEU	379	52.234	57.363	42.554	1.00	50.28	AAAAA	C
ATOM	3606	CD1	LEU	379	52.926	56.187	43.217	1.00	39.89	AAAAA	C
ATOM	3607	CD2	LEU	379	52.616	58.625	43.300	1.00	42.89	AAAAA	C
ATOM	3608	C	LEU	379	52.609	59.019	39.080	1.00	50.94	AAAAA	C
ATOM	3609	O	LEU	379	53.576	59.788	39.139	1.00	54.23	AAAAA	O
ATOM	3610	N	GLY	380	52.175	58.423	37.972	1.00	48.67	AAAAA	N
ATOM	3612	CA	GLY	380	52.831	58.715	36.702	1.00	49.94	AAAAA	C
ATOM	36										

ATOM	3620	CD	GLU	381	56.050	55.192	40.873	1.00	42.11	AAAA	C
ATOM	3621	OE1	GLU	381	56.160	53.966	40.890	1.00	40.26	AAAA	O
ATOM	3622	OE2	GLU	381	56.379	56.014	41.754	1.00	51.32	AAAA	O
ATOM	3623	C	GLU	381	56.078	55.784	35.858	1.00	55.86	AAAA	C
ATOM	3624	O	GLU	381	57.216	55.652	35.345	1.00	54.61	AAAA	O
ATOM	3625	N	GLU	382	54.980	55.449	35.157	1.00	53.56	AAAA	N
ATOM	3627	CA	GLU	382	55.091	55.018	33.766	1.00	48.15	AAAA	C
ATOM	3628	CB	GLU	382	55.051	53.550	33.532	1.00	35.27	AAAA	C
ATOM	3629	CG	GLU	382	54.739	53.225	32.051	1.00	49.69	AAAA	C
ATOM	3630	CD	GLU	382	54.676	51.719	31.807	1.00	56.45	AAAA	C
ATOM	3631	OE1	GLU	382	55.062	50.924	32.705	1.00	61.66	AAAA	O
ATOM	3632	OE2	GLU	382	54.264	51.201	30.745	1.00	57.69	AAAA	O
ATOM	3633	C	GLU	382	54.006	55.732	32.973	1.00	50.84	AAAA	C
ATOM	3634	O	GLU	382	53.097	56.282	33.598	1.00	49.44	AAAA	O
ATOM	3635	N	GLN	383	54.347	56.256	31.780	1.00	52.25	AAAA	N
ATOM	3637	CA	GLN	383	53.498	57.153	31.016	1.00	40.15	AAAA	C
ATOM	3638	CB	GLN	383	53.914	58.609	31.155	1.00	28.50	AAAA	C
ATOM	3639	CG	GLN	383	54.489	58.909	32.542	1.00	31.10	AAAA	C
ATOM	3640	CD	GLN	383	54.950	60.301	32.752	1.00	33.19	AAAA	C
ATOM	3641	OE1	GLN	383	55.186	60.840	31.683	1.00	40.34	AAAA	O
ATOM	3642	NE2	GLN	383	55.043	60.943	33.934	1.00	36.30	AAAA	N
ATOM	3645	C	GLN	383	53.426	56.744	29.563	1.00	40.45	AAAA	C
ATOM	3646	O	GLN	383	54.131	55.858	29.139	1.00	43.45	AAAA	O
ATOM	3647	N	LEU	384	52.375	57.195	28.860	1.00	42.54	AAAA	N
ATOM	3649	CA	LEU	384	52.257	56.889	27.443	1.00	43.24	AAAA	C
ATOM	3650	CB	LEU	384	50.814	57.011	26.949	1.00	43.79	AAAA	C
ATOM	3651	CG	LEU	384	49.818	56.235	27.861	1.00	41.21	AAAA	C
ATOM	3652	CD1	LEU	384	48.611	57.095	28.221	1.00	33.99	AAAA	C
ATOM	3653	CD2	LEU	384	49.405	54.968	27.149	1.00	33.20	AAAA	C
ATOM	3654	C	LEU	384	53.204	57.809	26.672	1.00	40.51	AAAA	C
ATOM	3655	O	LEU	384	53.582	58.872	27.177	1.00	29.66	AAAA	O
ATOM	3656	N	GLU	385	53.659	57.319	25.531	1.00	45.22	AAAA	N
ATOM	3658	CA	GLU	385	54.410	58.116	24.570	1.00	49.98	AAAA	C
ATOM	3659	CB	GLU	385	54.424	57.475	23.174	1.00	60.50	AAAA	C
ATOM	3660	CG	GLU	385	55.045	56.095	23.106	1.00	68.76	AAAA	C
ATOM	3661	CD	GLU	385	54.195	54.951	23.592	1.00	72.07	AAAA	C
ATOM	3662	OE1	GLU	385	53.150	55.213	24.244	1.00	81.88	AAAA	O
ATOM	3663	OE2	GLU	385	54.565	53.786	23.301	1.00	73.13	AAAA	O
ATOM	3664	C	GLU	385	53.828	59.515	24.450	1.00	47.41	AAAA	C
ATOM	3665	O	GLU	385	52.635	59.706	24.184	1.00	54.43	AAAA	O
ATOM	3666	N	GLY	386	54.614	60.470	24.902	1.00	43.69	AAAA	N
ATOM	3668	CA	GLY	386	54.181	61.870	24.897	1.00	40.34	AAAA	C
ATOM	3669	C	GLY	386	54.286	62.449	26.308	1.00	40.65	AAAA	C
ATOM	3670	O	GLY	386	53.930	63.615	26.491	1.00	39.75	AAAA	O
ATOM	3671	N	ASN	387	54.441	61.537	27.272	1.00	40.75	AAAA	N
ATOM	3673	CA	ASN	387	54.479	61.912	28.675	1.00	49.18	AAAA	C
ATOM	3674	CB	ASN	387	55.500	63.084	28.874	1.00	44.41	AAAA	C
ATOM	3675	CG	ASN	387	56.925	62.541	28.722	1.00	61.51	AAAA	C
ATOM	3676	OD1	ASN	387	57.199	61.313	28.677	1.00	57.85	AAAA	O
ATOM	3677	ND2	ASN	387	58.063	63.251	28.592	1.00	61.96	AAAA	N
ATOM	3680	C	ASN	387	53.095	62.100	29.299	1.00	48.46	AAAA	C
ATOM	3681	O	ASN	387	52.836	62.891	30.218	1.00	48.99	AAAA	O
ATOM	3682	N	TYR	388	52.214	61.116	29.058	1.00	46.29	AAAA	N
ATOM	3684	CA	TYR	388	50.846	61.199	29.540	1.00	45.09	AAAA	C
ATOM	3685	CB	TYR	388	49.823	60.957	28.399	1.00	40.70	AAAA	C
ATOM	3686	CG	TYR	388	49.925	62.056	27.373	1.00	42.24	AAAA	C
ATOM	3687	CD1	TYR	388	50.343	61.854	26.064	1.00	44.38	AAAA	C
ATOM	3688	CE1	TYR	388	50.401	62.885	25.157	1.00	35.51	AAAA	C
ATOM	3689	CD2	TYR	388	49.625	63.356	27.709	1.00	44.67	AAAA	C
ATOM	3690	CE2	TYR	388	49.699	64.428	26.830	1.00	38.14	AAAA	C
ATOM	3691	CZ	TYR	388	50.087	64.148	25.555	1.00	41.27	AAAA	C
ATOM	3692	OH	TYR	388	50.151	65.181	24.604	1.00	50.18	AAAA	O
ATOM	3694	C	TYR	388	50.563	60.288	30.714	1.00	41.88	AAAA	C
ATOM	3695	O	TYR	388	50.727	59.092	30.511	1.00	32.99	AAAA	O
ATOM	3696	N	SER	389	50.020	60.917	31.763	1.00	45.42	AAAA	N
ATOM	3698	CA	SER	389	49.591	60.131	32.931	1.00	50.13	AAAA	C
ATOM	3699	CB	SER	389	49.798	60.894	34.261	1.00	45.57	AAAA	C
ATOM	3700	OG	SER	389	51.185	60.899	34.504	1.00	51.11	AAAA	O
ATOM	3702	C	SER	389	48.097	59.813	32.804	1.00	48.11	AAAA	C
ATOM	3703	O	SER	389	47.686	58.792	33.336	1.00	49.25	AAAA	O
ATOM	3704	N	PHE	390	47.321	60.685	32.196	1.00	42.56	AAAA	N
ATOM	3706	CA	PHE	390	45.867	60.595	32.146	1.00	40.76	AAAA	C
ATOM	3707	CB	PHE	390	45.241	61.581	33.139				

ATOM	3713	CZ	PHE	390	41.063	60.745	33.739	1.00	34.54	AAAA	C
ATOM	3714	C	PHE	390	45.372	60.829	30.720	1.00	38.54	AAAA	C
ATOM	3715	O	PHE	390	45.542	61.918	30.126	1.00	40.29	AAAA	O
ATOM	3716	N	TYR	391	44.819	59.818	30.096	1.00	33.48	AAAA	N
ATOM	3718	CA	TYR	391	44.596	59.782	28.663	1.00	38.58	AAAA	C
ATOM	3719	CB	TYR	391	45.579	58.871	27.972	1.00	38.95	AAAA	C
ATOM	3720	CG	TYR	391	45.760	59.006	26.503	1.00	44.54	AAAA	C
ATOM	3721	CD1	TYR	391	46.822	59.815	26.052	1.00	47.14	AAAA	C
ATOM	3722	CE1	TYR	391	47.057	59.993	24.722	1.00	46.03	AAAA	C
ATOM	3723	CD2	TYR	391	44.927	58.390	25.584	1.00	46.94	AAAA	C
ATOM	3724	CE2	TYR	391	45.157	58.560	24.242	1.00	47.45	AAAA	C
ATOM	3725	CZ	TYR	391	46.207	59.350	23.830	1.00	45.84	AAAA	C
ATOM	3726	OH	TYR	391	46.374	59.492	22.481	1.00	44.70	AAAA	O
ATOM	3728	C	TYR	391	43.194	59.232	28.349	1.00	39.74	AAAA	C
ATOM	3729	O	TYR	391	42.841	58.103	28.730	1.00	38.49	AAAA	O
ATOM	3730	N	VAL	392	42.417	60.158	27.779	1.00	37.07	AAAA	N
ATOM	3732	CA	VAL	392	40.958	59.874	27.603	1.00	39.52	AAAA	C
ATOM	3733	CB	VAL	392	40.075	60.880	28.440	1.00	41.12	AAAA	C
ATOM	3734	CG1	VAL	392	38.612	60.464	28.472	1.00	37.96	AAAA	C
ATOM	3735	CG2	VAL	392	40.666	61.041	29.841	1.00	33.19	AAAA	C
ATOM	3736	C	VAL	392	40.531	60.092	26.182	1.00	31.08	AAAA	C
ATOM	3737	O	VAL	392	40.508	61.277	25.804	1.00	34.71	AAAA	O
ATOM	3738	N	LEU	393	40.299	59.113	25.383	1.00	34.62	AAAA	N
ATOM	3740	CA	LEU	393	39.948	59.259	23.977	1.00	38.12	AAAA	C
ATOM	3741	CB	LEU	393	41.200	59.036	23.096	1.00	42.49	AAAA	C
ATOM	3742	CG	LEU	393	41.023	58.649	21.586	1.00	26.48	AAAA	C
ATOM	3743	CD1	LEU	393	41.128	59.879	20.753	1.00	26.57	AAAA	C
ATOM	3744	CD2	LEU	393	42.078	57.589	21.244	1.00	29.98	AAAA	C
ATOM	3745	C	LEU	393	38.821	58.375	23.482	1.00	39.15	AAAA	C
ATOM	3746	O	LEU	393	38.760	57.173	23.799	1.00	37.90	AAAA	O
ATOM	3747	N	ASP	394	38.015	58.973	22.565	1.00	43.38	AAAA	N
ATOM	3749	CA	ASP	394	36.888	58.215	21.975	1.00	44.77	AAAA	C
ATOM	3750	CB	ASP	394	37.445	57.073	21.120	1.00	44.80	AAAA	C
ATOM	3751	CG	ASP	394	36.466	56.477	20.156	1.00	47.14	AAAA	C
ATOM	3752	OD1	ASP	394	36.750	55.577	19.333	1.00	52.81	AAAA	O
ATOM	3753	OD2	ASP	394	35.311	56.948	20.180	1.00	49.27	AAAA	O
ATOM	3754	C	ASP	394	35.936	57.619	23.021	1.00	43.17	AAAA	C
ATOM	3755	O	ASP	394	35.831	56.385	23.212	1.00	43.51	AAAA	O
ATOM	3756	N	ASN	395	35.299	58.495	23.746	1.00	39.90	AAAA	N
ATOM	3758	CA	ASN	395	34.305	58.158	24.776	1.00	46.32	AAAA	C
ATOM	3759	CB	ASN	395	34.804	58.512	26.212	1.00	42.96	AAAA	C
ATOM	3760	CG	ASN	395	35.992	57.619	26.579	1.00	36.92	AAAA	C
ATOM	3761	OD1	ASN	395	36.013	56.394	26.796	1.00	21.65	AAAA	O
ATOM	3762	ND2	ASN	395	37.075	58.409	26.558	1.00	27.87	AAAA	N
ATOM	3765	C	ASN	395	32.932	58.816	24.541	1.00	40.44	AAAA	C
ATOM	3766	O	ASN	395	32.749	59.982	24.882	1.00	37.06	AAAA	O
ATOM	3767	N	GLN	396	32.073	58.055	23.877	1.00	46.74	AAAA	N
ATOM	3769	CA	GLN	396	30.771	58.582	23.421	1.00	52.93	AAAA	C
ATOM	3770	CB	GLN	396	29.848	57.567	22.744	1.00	52.29	AAAA	C
ATOM	3771	CG	GLN	396	30.173	57.405	21.257	1.00	46.42	AAAA	C
ATOM	3772	CD	GLN	396	29.817	55.991	20.840	1.00	55.21	AAAA	C
ATOM	3773	OE1	GLN	396	28.835	55.421	21.312	1.00	61.17	AAAA	O
ATOM	3774	NE2	GLN	396	30.628	55.411	19.971	1.00	55.79	AAAA	N
ATOM	3777	C	GLN	396	29.874	59.224	24.458	1.00	48.64	AAAA	C
ATOM	3778	O	GLN	396	29.407	60.287	24.113	1.00	51.63	AAAA	O
ATOM	3779	N	ASN	397	29.717	58.681	25.633	1.00	48.95	AAAA	N
ATOM	3781	CA	ASN	397	28.783	59.196	26.632	1.00	51.72	AAAA	C
ATOM	3782	CB	ASN	397	27.969	57.959	27.093	1.00	35.94	AAAA	C
ATOM	3783	CG	ASN	397	27.231	57.430	25.860	1.00	49.09	AAAA	C
ATOM	3784	OD1	ASN	397	26.591	58.304	25.229	1.00	49.32	AAAA	O
ATOM	3785	ND2	ASN	397	27.258	56.175	25.431	1.00	43.31	AAAA	N
ATOM	3788	C	ASN	397	29.367	59.945	27.800	1.00	52.98	AAAA	C
ATOM	3789	O	ASN	397	28.586	60.344	28.627	1.00	53.33	AAAA	O
ATOM	3790	N	LEU	398	30.682	59.990	28.001	1.00	55.73	AAAA	N
ATOM	3792	CA	LEU	398	31.312	60.550	29.179	1.00	52.12	AAAA	C
ATOM	3793	CB	LEU	398	32.827	60.388	29.148	1.00	48.47	AAAA	C
ATOM	3794	CG	LEU	398	33.606	60.283	30.460	1.00	41.81	AAAA	C
ATOM	3795	CD1	LEU	398	33.417	58.939	31.136	1.00	40.35	AAAA	C
ATOM	3796	CD2	LEU	398	35.070	60.608	30.082	1.00	39.03	AAAA	C
ATOM	3797	C	LEU	398	30.923	61.995	29.353	1.00	52.35	AAAA	C
ATOM	3798	O	LEU	398	31.422	62.909	28.681	1.00	49.91	AAAA	O
ATOM	3799	N	GLN	399	30.241	62.225	30.469	1.00	58.76	AAAA	N
ATOM	3801	CA	GLN	399	29.688	63.558	30.796	1.00	60.03		

ATOM	3809	C	GLN	399	30.490	64.252	31.888	1.00	54.49	AAAAA	C
ATOM	3810	O	GLN	399	30.528	65.477	32.068	1.00	51.96	AAAAA	O
ATOM	3811	N	GLN	400	31.058	63.389	32.734	1.00	50.44	AAAAA	N
ATOM	3813	CA	GLN	400	31.938	63.948	33.756	1.00	53.83	AAAAA	C
ATOM	3814	CB	GLN	400	31.215	64.314	35.049	1.00	54.97	AAAAA	C
ATOM	3815	CG	GLN	400	30.717	63.150	35.887	1.00	58.99	AAAAA	C
ATOM	3816	CD	GLN	400	30.678	63.430	37.389	1.00	65.82	AAAAA	C
ATOM	3817	OE1	GLN	400	30.906	64.502	37.962	1.00	68.10	AAAAA	O
ATOM	3818	NE2	GLN	400	30.341	62.444	38.222	1.00	55.35	AAAAA	N
ATOM	3821	C	GLN	400	33.113	63.008	34.052	1.00	52.08	AAAAA	C
ATOM	3822	O	GLN	400	33.107	61.783	33.942	1.00	51.90	AAAAA	O
ATOM	3823	N	LEU	401	34.073	63.580	34.751	1.00	49.58	AAAAA	N
ATOM	3825	CA	LEU	401	35.175	62.844	35.334	1.00	49.57	AAAAA	C
ATOM	3826	CB	LEU	401	36.378	63.803	35.260	1.00	47.94	AAAAA	C
ATOM	3827	CG	LEU	401	36.638	64.237	33.772	1.00	46.61	AAAAA	C
ATOM	3828	CD1	LEU	401	37.658	65.326	33.677	1.00	39.09	AAAAA	C
ATOM	3829	CD2	LEU	401	36.919	63.069	32.860	1.00	40.72	AAAAA	C
ATOM	3830	C	LEU	401	34.866	62.357	36.734	1.00	51.23	AAAAA	C
ATOM	3831	O	LEU	401	34.258	61.299	36.892	1.00	49.06	AAAAA	O
ATOM	3832	N	TRP	402	35.297	63.140	37.690	1.00	54.58	AAAAA	N
ATOM	3834	CA	TRP	402	34.975	63.090	39.097	1.00	59.76	AAAAA	C
ATOM	3835	CB	TRP	402	36.279	62.953	39.933	1.00	59.56	AAAAA	C
ATOM	3836	CG	TRP	402	36.971	61.624	39.737	1.00	58.17	AAAAA	C
ATOM	3837	CD2	TRP	402	37.981	61.243	38.784	1.00	53.18	AAAAA	C
ATOM	3838	CE2	TRP	402	38.286	59.897	39.002	1.00	56.61	AAAAA	C
ATOM	3839	CE3	TRP	402	38.643	61.917	37.764	1.00	43.25	AAAAA	C
ATOM	3840	CD1	TRP	402	36.719	60.517	40.459	1.00	53.50	AAAAA	C
ATOM	3841	NE1	TRP	402	37.488	59.467	40.032	1.00	57.66	AAAAA	N
ATOM	3843	CZ2	TRP	402	39.212	59.160	38.249	1.00	51.44	AAAAA	C
ATOM	3844	CZ3	TRP	402	39.546	61.199	37.026	1.00	53.69	AAAAA	C
ATOM	3845	CH2	TRP	402	39.820	59.857	37.263	1.00	50.75	AAAAA	C
ATOM	3846	C	TRP	402	34.223	64.389	39.429	1.00	64.09	AAAAA	C
ATOM	3847	O	TRP	402	34.408	65.449	38.808	1.00	61.98	AAAAA	O
ATOM	3848	N	ASP	403	33.503	64.418	40.551	1.00	68.85	AAAAA	N
ATOM	3850	CA	ASP	403	32.947	65.668	41.068	1.00	67.83	AAAAA	C
ATOM	3851	CB	ASP	403	31.918	65.343	42.151	1.00	72.19	AAAAA	C
ATOM	3852	CG	ASP	403	30.853	66.417	42.306	1.00	73.08	AAAAA	C
ATOM	3853	OD1	ASP	403	31.177	67.625	42.297	1.00	71.67	AAAAA	O
ATOM	3854	OD2	ASP	403	29.693	65.979	42.454	1.00	75.08	AAAAA	O
ATOM	3855	C	ASP	403	34.005	66.607	41.607	1.00	66.63	AAAAA	C
ATOM	3856	O	ASP	403	34.245	66.672	42.811	1.00	67.18	AAAAA	O
ATOM	3857	N	TRP	404	34.449	67.588	40.846	1.00	69.29	AAAAA	N
ATOM	3859	CA	TRP	404	35.412	68.588	41.291	1.00	77.11	AAAAA	C
ATOM	3860	CB	TRP	404	35.859	69.409	40.063	1.00	79.10	AAAAA	C
ATOM	3861	CG	TRP	404	36.504	68.509	39.047	1.00	82.59	AAAAA	C
ATOM	3862	CD2	TRP	404	37.294	67.346	39.322	1.00	84.82	AAAAA	C
ATOM	3863	CE2	TRP	404	37.686	66.813	38.081	1.00	84.56	AAAAA	C
ATOM	3864	CE3	TRP	404	37.703	66.710	40.506	1.00	80.95	AAAAA	C
ATOM	3865	CD1	TRP	404	36.460	68.622	37.694	1.00	83.37	AAAAA	C
ATOM	3866	NE1	TRP	404	37.165	67.617	37.111	1.00	80.33	AAAAA	N
ATOM	3868	CZ2	TRP	404	38.477	65.662	37.982	1.00	85.91	AAAAA	C
ATOM	3869	CZ3	TRP	404	38.471	65.573	40.392	1.00	86.36	AAAAA	C
ATOM	3870	CH2	TRP	404	38.860	65.051	39.133	1.00	85.05	AAAAA	C
ATOM	3871	C	TRP	404	35.034	69.517	42.420	1.00	81.60	AAAAA	C
ATOM	3872	O	TRP	404	35.387	70.709	42.504	1.00	84.57	AAAAA	O
ATOM	3873	N	ASP	405	34.281	69.063	43.393	1.00	84.45	AAAAA	N
ATOM	3875	CA	ASP	405	33.771	69.861	44.496	1.00	87.48	AAAAA	C
ATOM	3876	CB	ASP	405	32.352	70.365	44.262	1.00	88.04	AAAAA	C
ATOM	3877	CG	ASP	405	32.274	71.612	43.409	1.00	92.54	AAAAA	C
ATOM	3878	OD1	ASP	405	33.306	72.285	43.207	1.00	94.82	AAAAA	O
ATOM	3879	OD2	ASP	405	31.130	71.854	42.955	1.00	95.26	AAAAA	O
ATOM	3880	C	ASP	405	33.730	68.906	45.693	1.00	87.80	AAAAA	C
ATOM	3881	O	ASP	405	34.245	69.224	46.743	1.00	92.18	AAAAA	O
ATOM	3882	N	ALA	406	33.239	67.709	45.460	1.00	84.46	AAAAA	N
ATOM	3884	CA	ALA	406	33.176	66.671	46.451	1.00	82.87	AAAAA	C
ATOM	3885	CB	ALA	406	31.943	65.805	46.133	1.00	76.32	AAAAA	C
ATOM	3886	C	ALA	406	34.445	65.840	46.459	1.00	85.77	AAAAA	C
ATOM	3887	O	ALA	406	34.470	64.823	47.185	1.00	89.38	AAAAA	O
ATOM	3888	N	ARG	407	35.433	66.073	45.577	1.00	83.74	AAAAA	N
ATOM	3890	CA	ARG	407	36.541	65.151	45.400	1.00	79.60	AAAAA	C
ATOM	3891	CB	ARG	407	36.165	64.140	44.297	1.00	77.84	AAAAA	C
ATOM	3892	CG	ARG	407	35.457	62.950	44.921	1.00	81.91	AAAAA	C</

ATOM	3904	O	ARG	407	37.989	66.774	44.410	1.00	77.47	AAAAA	O
ATOM	3905	N	ASN	408	38.958	65.081	45.453	1.00	75.75	AAAAA	N
ATOM	3907	CA	ASN	408	40.311	65.556	45.173	1.00	73.79	AAAAA	C
ATOM	3908	CB	ASN	408	40.938	66.240	46.388	1.00	74.46	AAAAA	C
ATOM	3909	CG	ASN	408	41.986	67.242	45.947	1.00	82.51	AAAAA	C
ATOM	3910	OD1	ASN	408	41.813	68.429	46.240	1.00	90.33	AAAAA	O
ATOM	3911	ND2	ASN	408	43.028	66.821	45.253	1.00	84.46	AAAAA	N
ATOM	3914	C	ASN	408	41.257	64.468	44.654	1.00	65.97	AAAAA	C
ATOM	3915	O	ASN	408	41.251	63.374	45.151	1.00	63.82	AAAAA	O
ATOM	3916	N	LEU	409	42.041	64.793	43.650	1.00	61.41	AAAAA	N
ATOM	3918	CA	LEU	409	42.896	63.872	42.947	1.00	60.90	AAAAA	C
ATOM	3919	CB	LEU	409	42.153	63.250	41.768	1.00	62.98	AAAAA	C
ATOM	3920	CG	LEU	409	42.992	62.553	40.704	1.00	59.77	AAAAA	C
ATOM	3921	CD1	LEU	409	43.488	61.205	41.197	1.00	54.06	AAAAA	C
ATOM	3922	CD2	LEU	409	42.094	62.445	39.486	1.00	55.74	AAAAA	C
ATOM	3923	C	LEU	409	44.151	64.599	42.485	1.00	61.19	AAAAA	C
ATOM	3924	O	LEU	409	44.141	65.809	42.370	1.00	60.64	AAAAA	O
ATOM	3925	N	THR	410	45.281	63.903	42.424	1.00	63.74	AAAAA	N
ATOM	3927	CA	THR	410	46.588	64.462	42.131	1.00	60.44	AAAAA	C
ATOM	3928	CB	THR	410	47.454	64.676	43.385	1.00	67.08	AAAAA	C
ATOM	3929	OG1	THR	410	46.870	65.746	44.157	1.00	74.29	AAAAA	O
ATOM	3931	CG2	THR	410	48.909	65.103	43.162	1.00	48.56	AAAAA	C
ATOM	3932	C	THR	410	47.426	63.565	41.218	1.00	56.62	AAAAA	C
ATOM	3933	O	THR	410	47.382	62.354	41.317	1.00	54.99	AAAAA	O
ATOM	3934	N	ILE	411	48.077	64.245	40.288	1.00	53.97	AAAAA	N
ATOM	3936	CA	ILE	411	48.897	63.562	39.291	1.00	53.29	AAAAA	C
ATOM	3937	CB	ILE	411	48.409	63.854	37.864	1.00	49.81	AAAAA	C
ATOM	3938	CG2	ILE	411	49.216	63.128	36.806	1.00	30.86	AAAAA	C
ATOM	3939	CG1	ILE	411	46.911	63.489	37.729	1.00	40.83	AAAAA	C
ATOM	3940	CD1	ILE	411	46.322	63.547	36.338	1.00	38.51	AAAAA	C
ATOM	3941	C	ILE	411	50.319	64.018	39.568	1.00	55.38	AAAAA	C
ATOM	3942	O	ILE	411	50.656	65.179	39.291	1.00	57.59	AAAAA	O
ATOM	3943	N	SER	412	51.073	63.182	40.270	1.00	54.26	AAAAA	N
ATOM	3945	CA	SER	412	52.434	63.502	40.689	1.00	54.46	AAAAA	C
ATOM	3946	CB	SER	412	53.071	62.210	41.248	1.00	55.78	AAAAA	C
ATOM	3947	OG	SER	412	53.756	62.536	42.434	1.00	67.12	AAAAA	O
ATOM	3949	C	SER	412	53.326	63.910	39.523	1.00	55.52	AAAAA	C
ATOM	3950	O	SER	412	54.081	64.876	39.527	1.00	55.04	AAAAA	O
ATOM	3951	N	ALA	413	53.254	63.124	38.438	1.00	50.12	AAAAA	N
ATOM	3953	CA	ALA	413	54.064	63.402	37.281	1.00	50.01	AAAAA	C
ATOM	3954	CB	ALA	413	55.334	62.520	37.365	1.00	34.96	AAAAA	C
ATOM	3955	C	ALA	413	53.301	63.078	35.994	1.00	48.71	AAAAA	C
ATOM	3956	O	ALA	413	52.495	62.168	35.998	1.00	48.81	AAAAA	O
ATOM	3957	N	GLY	414	53.675	63.690	34.895	1.00	47.92	AAAAA	N
ATOM	3959	CA	GLY	414	53.057	63.454	33.607	1.00	51.75	AAAAA	C
ATOM	3960	C	GLY	414	52.017	64.524	33.294	1.00	52.77	AAAAA	C
ATOM	3961	O	GLY	414	51.684	65.370	34.114	1.00	53.23	AAAAA	O
ATOM	3962	N	LYS	415	51.385	64.406	32.138	1.00	56.31	AAAAA	N
ATOM	3964	CA	LYS	415	50.289	65.317	31.759	1.00	52.49	AAAAA	C
ATOM	3965	CB	LYS	415	50.884	66.358	30.833	1.00	50.94	AAAAA	C
ATOM	3966	CG	LYS	415	51.198	65.855	29.429	1.00	54.39	AAAAA	C
ATOM	3967	CD	LYS	415	52.288	66.691	28.765	1.00	53.96	AAAAA	C
ATOM	3968	CE	LYS	415	52.785	66.151	27.441	1.00	56.01	AAAAA	C
ATOM	3969	NZ	LYS	415	52.426	67.032	26.284	1.00	66.36	AAAAA	N
ATOM	3973	C	LYS	415	49.110	64.576	31.155	1.00	50.04	AAAAA	C
ATOM	3974	O	LYS	415	49.077	63.337	31.036	1.00	49.77	AAAAA	O
ATOM	3975	N	MET	416	48.091	65.353	30.771	1.00	48.34	AAAAA	N
ATOM	3977	CA	MET	416	46.890	64.734	30.186	1.00	46.77	AAAAA	C
ATOM	3978	CB	MET	416	45.629	65.186	30.949	1.00	42.79	AAAAA	C
ATOM	3979	CG	MET	416	45.836	65.880	32.273	1.00	40.91	AAAAA	C
ATOM	3980	SD	MET	416	44.511	65.636	33.517	1.00	56.20	AAAAA	S
ATOM	3981	CE	MET	416	44.002	67.366	33.690	1.00	35.94	AAAAA	C
ATOM	3982	C	MET	416	46.623	65.064	28.728	1.00	40.40	AAAAA	C
ATOM	3983	O	MET	416	46.963	66.137	28.247	1.00	34.84	AAAAA	O
ATOM	3984	N	TYR	417	45.893	64.169	28.104	1.00	38.49	AAAAA	N
ATOM	3986	CA	TYR	417	45.355	64.387	26.765	1.00	39.50	AAAAA	C
ATOM	3987	CB	TYR	417	46.156	63.471	25.831	1.00	32.02	AAAAA	C
ATOM	3988	CG	TYR	417	45.583	63.430	24.428	1.00	39.48	AAAAA	C
ATOM	3989	CD1	TYR	417	45.730	64.501	23.511	1.00	39.29	AAAAA	C
ATOM	3990	CE1	TYR	417	45.196	64.429	22.253	1.00	34.56	AAAAA	C
ATOM	3991	CD2	TYR	417	44.884	62.321	24.005	1.00	36.81	AAAAA	C
ATOM	3992	CE2	TYR	417	44.379	62.241	22.722	1.00	38.80	AAAAA	C
ATOM	3993	CZ	TYR								

ATOM	4001	CB	PHE	418	40.772	65.657	26.730	1.00	47.19	AAAA C
ATOM	4002	CG	PHE	418	40.675	65.264	28.177	1.00	43.44	AAAA C
ATOM	4003	CD1	PHE	418	41.552	65.685	29.132	1.00	38.43	AAAA C
ATOM	4004	CD2	PHE	418	39.638	64.417	28.544	1.00	51.21	AAAA C
ATOM	4005	CE1	PHE	418	41.402	65.291	30.440	1.00	46.44	AAAA C
ATOM	4006	CE2	PHE	418	39.486	64.023	29.845	1.00	46.63	AAAA C
ATOM	4007	CZ	PHE	418	40.358	64.454	30.801	1.00	44.68	AAAA C
ATOM	4008	C	PHE	418	41.251	64.730	24.440	1.00	44.64	AAAA C
ATOM	4009	O	PHE	418	41.375	65.762	23.812	1.00	47.60	AAAA O
ATOM	4010	N	ALA	419	40.554	63.713	23.936	1.00	43.06	AAAA N
ATOM	4012	CA	ALA	419	40.015	63.793	22.607	1.00	39.21	AAAA C
ATOM	4013	CB	ALA	419	41.090	63.562	21.555	1.00	30.88	AAAA C
ATOM	4014	C	ALA	419	38.837	62.846	22.366	1.00	41.77	AAAA C
ATOM	4015	O	ALA	419	38.871	61.628	22.557	1.00	36.08	AAAA O
ATOM	4016	N	PHE	420	37.829	63.398	21.618	1.00	40.41	AAAA N
ATOM	4018	CA	PHE	420	36.742	62.621	21.070	1.00	40.03	AAAA C
ATOM	4019	CB	PHE	420	37.157	61.430	20.180	1.00	45.54	AAAA C
ATOM	4020	CG	PHE	420	37.832	61.909	18.912	1.00	54.18	AAAA C
ATOM	4021	CD1	PHE	420	39.221	61.987	18.751	1.00	49.23	AAAA C
ATOM	4022	CD2	PHE	420	37.006	62.345	17.871	1.00	47.65	AAAA C
ATOM	4023	CE1	PHE	420	39.783	62.496	17.567	1.00	46.00	AAAA C
ATOM	4024	CE2	PHE	420	37.572	62.833	16.725	1.00	51.10	AAAA C
ATOM	4025	CZ	PHE	420	38.964	62.928	16.549	1.00	44.01	AAAA C
ATOM	4026	C	PHE	420	35.762	62.146	22.126	1.00	41.65	AAAA C
ATOM	4027	O	PHE	420	35.352	60.991	22.215	1.00	38.35	AAAA O
ATOM	4028	N	ASN	421	35.459	63.024	23.049	1.00	45.35	AAAA N
ATOM	4030	CA	ASN	421	34.477	62.960	24.112	1.00	46.86	AAAA C
ATOM	4031	CB	ASN	421	35.183	63.276	25.449	1.00	43.60	AAAA C
ATOM	4032	CG	ASN	421	36.407	62.401	25.654	1.00	47.90	AAAA C
ATOM	4033	OD1	ASN	421	36.426	61.147	25.714	1.00	44.83	AAAA O
ATOM	4034	ND2	ASN	421	37.541	63.101	25.732	1.00	37.46	AAAA N
ATOM	4037	C	ASN	421	33.432	64.069	23.835	1.00	47.83	AAAA C
ATOM	4038	O	ASN	421	33.617	65.233	24.237	1.00	38.85	AAAA O
ATOM	4039	N	PRO	422	32.453	63.777	22.968	1.00	47.86	AAAA N
ATOM	4040	CD	PRO	422	32.213	62.423	22.372	1.00	44.11	AAAA C
ATOM	4041	CA	PRO	422	31.463	64.776	22.605	1.00	47.85	AAAA C
ATOM	4042	CB	PRO	422	30.731	64.084	21.446	1.00	44.86	AAAA C
ATOM	4043	CG	PRO	422	30.947	62.623	21.606	1.00	43.01	AAAA C
ATOM	4044	C	PRO	422	30.577	65.284	23.735	1.00	51.16	AAAA C
ATOM	4045	O	PRO	422	30.223	66.486	23.744	1.00	48.54	AAAA O
ATOM	4046	N	LYS	423	30.320	64.487	24.774	1.00	52.90	AAAA N
ATOM	4048	CA	LYS	423	29.431	64.908	25.865	1.00	58.82	AAAA C
ATOM	4049	CB	LYS	423	28.556	63.721	26.360	1.00	52.93	AAAA C
ATOM	4050	CG	LYS	423	28.209	62.810	25.196	1.00	70.55	AAAA C
ATOM	4051	CD	LYS	423	26.743	62.448	24.996	1.00	73.79	AAAA C
ATOM	4052	CE	LYS	423	26.030	63.374	24.021	1.00	77.06	AAAA C
ATOM	4053	NZ	LYS	423	25.949	64.748	24.614	1.00	64.99	AAAA N
ATOM	4057	C	LYS	423	30.158	65.482	27.071	1.00	57.43	AAAA C
ATOM	4058	O	LYS	423	29.582	65.478	28.152	1.00	55.22	AAAA O
ATOM	4059	N	LEU	424	31.425	65.859	26.862	1.00	55.95	AAAA N
ATOM	4061	CA	LEU	424	32.261	66.162	28.017	1.00	57.07	AAAA C
ATOM	4062	CB	LEU	424	33.463	65.250	28.237	1.00	49.16	AAAA C
ATOM	4063	CG	LEU	424	34.390	65.748	29.370	1.00	68.27	AAAA C
ATOM	4064	CD1	LEU	424	33.821	65.362	30.734	1.00	60.66	AAAA C
ATOM	4065	CD2	LEU	424	35.825	65.276	29.123	1.00	60.35	AAAA C
ATOM	4066	C	LEU	424	32.709	67.585	27.878	1.00	56.29	AAAA C
ATOM	4067	O	LEU	424	33.696	67.861	27.201	1.00	59.98	AAAA O
ATOM	4068	N	CYS	425	31.995	68.488	28.492	1.00	58.76	AAAA N
ATOM	4070	CA	CYS	425	32.342	69.916	28.406	1.00	60.39	AAAA C
ATOM	4071	C	CYS	425	33.771	70.119	28.810	1.00	62.59	AAAA C
ATOM	4072	O	CYS	425	34.288	69.665	29.831	1.00	64.45	AAAA O
ATOM	4073	CB	CYS	425	31.249	70.644	29.214	1.00	68.23	AAAA C
ATOM	4074	SG	CYS	425	29.916	71.303	28.086	1.00	81.03	AAA S
ATOM	4075	N	VAL	426	34.529	70.953	28.102	1.00	65.31	AAAA N
ATOM	4077	CA	VAL	426	35.943	71.149	28.358	1.00	65.49	AAAA C
ATOM	4078	CB	VAL	426	36.644	72.022	27.310	1.00	66.66	AAAA C
ATOM	4079	CG1	VAL	426	36.715	71.413	25.925	1.00	62.49	AAAA C
ATOM	4080	CG2	VAL	426	35.962	73.365	27.239	1.00	60.92	AAAA C
ATOM	4081	C	VAL	426	36.105	71.711	29.757	1.00	65.99	AAAA C
ATOM	4082	O	VAL	426	37.180	71.724	30.388	1.00	64.51	AAAA O
ATOM	4083	N	SER	427	35.090	72.361	30.267	1.00	67.67	AAAA N
ATOM	4085	CA	SER	427	35.091	72.927	31.599	1.00	66.85	AAAA C
ATOM	4086	CB	SER	427	33.685	73.499	31.864	1.00	61.16	AAAA C
ATOM	4087	OG	SER	427	34.088	74.860	32.098	1.00	67.05	AAA O
ATOM	4089	C	SER	427	35.515	71.972	32.701	1.00	64.24	AAA C
ATOM	4090	O	SER	427	36.332	72.328	33.573	1.00	63.66	AAA O
ATOM	4091									

ATOM	4094	CB	GLU	428	34.594	68.485	33.240	1.00	68.67	AAAAA	C
ATOM	4095	CG	GLU	428	33.115	68.560	33.537	1.00	66.59	AAAAA	C
ATOM	4096	CD	GLU	428	32.785	68.560	35.023	1.00	72.33	AAAAA	C
ATOM	4097	OE1	GLU	428	32.729	67.522	35.722	1.00	81.62	AAAAA	O
ATOM	4098	OE2	GLU	428	32.581	69.688	35.517	1.00	70.97	AAAAA	O
ATOM	4099	C	GLU	428	36.870	69.485	33.429	1.00	61.63	AAAAA	C
ATOM	4100	O	GLU	428	37.671	69.696	34.307	1.00	62.03	AAAAA	O
ATOM	4101	N	ILE	429	37.265	69.262	32.165	1.00	61.26	AAAAA	N
ATOM	4103	CA	ILE	429	38.631	69.038	31.789	1.00	61.09	AAAAA	C
ATOM	4104	CB	ILE	429	38.759	68.933	30.263	1.00	59.32	AAAAA	C
ATOM	4105	CG2	ILE	429	40.257	68.915	29.895	1.00	45.93	AAAAA	C
ATOM	4106	CG1	ILE	429	37.968	67.719	29.794	1.00	57.66	AAAAA	C
ATOM	4107	CD1	ILE	429	38.038	67.555	28.285	1.00	53.48	AAAAA	C
ATOM	4108	C	ILE	429	39.498	70.166	32.323	1.00	61.90	AAAAA	C
ATOM	4109	O	ILE	429	40.592	70.017	32.867	1.00	61.28	AAAAA	O
ATOM	4110	N	TYR	430	38.987	71.384	32.200	1.00	65.34	AAAAA	N
ATOM	4112	CA	TYR	430	39.729	72.543	32.719	1.00	68.10	AAAAA	C
ATOM	4113	CB	TYR	430	39.180	73.822	32.099	1.00	71.02	AAAAA	C
ATOM	4114	CG	TYR	430	39.538	74.006	30.639	1.00	75.98	AAAAA	C
ATOM	4115	CD1	TYR	430	38.653	73.821	29.599	1.00	77.60	AAAAA	C
ATOM	4116	CE1	TYR	430	38.953	73.977	28.270	1.00	75.72	AAAAA	C
ATOM	4117	CD2	TYR	430	40.810	74.401	30.260	1.00	75.95	AAAAA	C
ATOM	4118	CE2	TYR	430	41.155	74.575	28.937	1.00	74.81	AAAAA	C
ATOM	4119	CZ	TYR	430	40.221	74.359	27.952	1.00	78.51	AAAAA	C
ATOM	4120	OH	TYR	430	40.564	74.542	26.616	1.00	85.40	AAAAA	O
ATOM	4122	C	TYR	430	39.779	72.634	34.241	1.00	63.72	AAAAA	C
ATOM	4123	O	TYR	430	40.654	73.321	34.758	1.00	58.26	AAAAA	O
ATOM	4124	N	ARG	431	38.819	72.017	34.907	1.00	65.53	AAAAA	N
ATOM	4126	CA	ARG	431	38.747	72.043	36.356	1.00	68.15	AAAAA	C
ATOM	4127	CB	ARG	431	37.348	71.748	36.898	1.00	73.32	AAAAA	C
ATOM	4128	CG	ARG	431	37.345	71.815	38.430	1.00	82.99	AAAAA	C
ATOM	4129	CD	ARG	431	37.270	73.279	38.860	1.00	88.39	AAAAA	C
ATOM	4130	NE	ARG	431	37.698	73.472	40.258	1.00	92.48	AAAAA	N
ATOM	4132	CZ	ARG	431	36.835	73.258	41.259	1.00	94.93	AAAAA	C
ATOM	4133	NH1	ARG	431	35.610	72.872	40.872	1.00	87.40	AAAAA	N
ATOM	4136	NH2	ARG	431	37.021	73.371	42.567	1.00	95.17	AAAAA	N
ATOM	4139	C	ARG	431	39.718	70.986	36.877	1.00	67.75	AAAAA	C
ATOM	4140	O	ARG	431	40.637	71.292	37.629	1.00	66.74	AAAAA	O
ATOM	4141	N	MET	432	39.541	69.791	36.305	1.00	63.87	AAAAA	N
ATOM	4143	CA	MET	432	40.437	68.703	36.652	1.00	64.40	AAAAA	C
ATOM	4144	CB	MET	432	40.237	67.522	35.718	1.00	54.25	AAAAA	C
ATOM	4145	CG	MET	432	41.254	66.426	35.971	1.00	40.18	AAAAA	C
ATOM	4146	SD	MET	432	40.829	64.925	35.112	1.00	52.21	AAAAA	S
ATOM	4147	CE	MET	432	41.582	63.681	36.137	1.00	54.89	AAAAA	C
ATOM	4148	C	MET	432	41.891	69.170	36.626	1.00	64.65	AAAAA	C
ATOM	4149	O	MET	432	42.530	68.992	37.653	1.00	65.88	AAAAA	O
ATOM	4150	N	GLU	433	42.331	69.811	35.556	1.00	65.78	AAAAA	N
ATOM	4152	CA	GLU	433	43.622	70.469	35.510	1.00	69.16	AAAAA	C
ATOM	4153	CB	GLU	433	43.704	71.506	34.401	1.00	69.58	AAAAA	C
ATOM	4154	CG	GLU	433	44.121	70.967	33.048	1.00	76.91	AAAAA	C
ATOM	4155	CD	GLU	433	44.623	72.149	32.242	1.00	82.02	AAAAA	C
ATOM	4156	OE1	GLU	433	44.718	73.224	32.874	1.00	86.82	AAAAA	O
ATOM	4157	OE2	GLU	433	44.905	72.050	31.042	1.00	88.26	AAAAA	O
ATOM	4158	C	GLU	433	44.016	71.219	36.781	1.00	71.29	AAAAA	C
ATOM	4159	O	GLU	433	45.133	71.083	37.294	1.00	74.29	AAAAA	O
ATOM	4160	N	GLU	434	43.178	72.120	37.280	1.00	72.93	AAAAA	N
ATOM	4162	CA	GLU	434	43.505	72.873	38.485	1.00	72.88	AAAAA	C
ATOM	4163	CB	GLU	434	42.458	73.916	38.840	1.00	81.36	AAAAA	C
ATOM	4164	CG	GLU	434	41.191	73.956	38.032	1.00	83.34	AAAAA	C
ATOM	4165	CD	GLU	434	40.181	75.004	38.432	1.00	97.32	AAAAA	C
ATOM	4166	OE1	GLU	434	39.521	74.928	39.505	1.00	97.34	AAAAA	O
ATOM	4167	OE2	GLU	434	40.080	75.941	37.583	1.00	99.95	AAAAA	O
ATOM	4168	C	GLU	434	43.675	71.886	39.632	1.00	71.46	AAAAA	C
ATOM	4169	O	GLU	434	44.728	71.858	40.251	1.00	78.49	AAAAA	O
ATOM	4170	N	VAL	435	42.670	71.095	39.926	1.00	66.34	AAAAA	N
ATOM	4172	CA	VAL	435	42.711	70.129	41.001	1.00	62.49	AAAAA	C
ATOM	4173	CB	VAL	435	41.451	69.217	40.972	1.00	60.38	AAAAA	C
ATOM	4174	CG1	VAL	435	41.547	68.214	42.104	1.00	52.32	AAAAA	C
ATOM	4175	CG2	VAL	435	40.203	70.073	41.029	1.00	50.79	AAAAA	C
ATOM	4176	C	VAL	435	43.939	69.253	41.018	1.00	60.74	AAAAA	C
ATOM	4177	O	VAL	435	44.607	69.165	42.034	1.00	62.37	AAAAA	O
ATOM	4178	N	THR	436	44.282	68.506	39.988	1.00	60.67	AAAAA	N
ATOM	41										

ATOM	4187	N	GLY	437	46.836	69.496	39.835	1.00	60.65	AAAA	N
ATOM	4189	CA	GLY	437	48.102	70.164	39.749	1.00	59.47	AAAA	C
ATOM	4190	C	GLY	437	48.800	69.864	38.424	1.00	64.78	AAAA	C
ATOM	4191	O	GLY	437	49.983	70.254	38.245	1.00	62.70	AAAA	O
ATOM	4192	N	THR	438	48.112	69.387	37.380	1.00	63.79	AAAA	N
ATOM	4194	CA	THR	438	48.731	69.169	36.076	1.00	65.09	AAAA	C
ATOM	4195	CB	THR	438	47.967	68.027	35.411	1.00	66.87	AAAA	C
ATOM	4196	OG1	THR	438	46.600	68.385	35.731	1.00	62.22	AAAA	O
ATOM	4198	CG2	THR	438	48.208	66.659	36.019	1.00	68.74	AAAA	C
ATOM	4199	C	THR	438	48.590	70.415	35.220	1.00	66.14	AAAA	C
ATOM	4200	O	THR	438	49.003	70.543	34.070	1.00	68.05	AAAA	O
ATOM	4201	N	LYS	439	48.089	71.481	35.822	1.00	67.37	AAAA	N
ATOM	4203	CA	LYS	439	47.927	72.757	35.154	1.00	71.08	AAAA	C
ATOM	4204	CB	LYS	439	47.114	73.708	36.034	1.00	69.23	AAAA	C
ATOM	4205	CG	LYS	439	46.677	74.938	35.265	1.00	77.26	AAAA	C
ATOM	4206	CD	LYS	439	45.832	75.942	36.014	1.00	81.65	AAAA	C
ATOM	4207	CE	LYS	439	44.385	75.475	36.182	1.00	87.39	AAAA	C
ATOM	4208	NZ	LYS	439	43.667	76.431	37.100	1.00	93.85	AAAA	N
ATOM	4212	C	LYS	439	49.249	73.396	34.752	1.00	73.01	AAAA	C
ATOM	4213	O	LYS	439	49.996	73.986	35.541	1.00	74.60	AAAA	O
ATOM	4214	N	GLY	440	49.517	73.453	33.441	1.00	73.33	AAAA	N
ATOM	4216	CA	GLY	440	50.733	74.167	33.014	1.00	71.39	AAAA	C
ATOM	4217	C	GLY	440	51.716	73.204	32.389	1.00	71.20	AAAA	C
ATOM	4218	O	GLY	440	52.684	73.650	31.822	1.00	72.70	AAAA	O
ATOM	4219	N	ARG	441	51.445	71.908	32.436	1.00	72.99	AAAA	N
ATOM	4221	CA	ARG	441	52.343	70.945	31.831	1.00	74.12	AAAA	C
ATOM	4222	CB	ARG	441	52.617	69.740	32.716	1.00	69.44	AAAA	C
ATOM	4223	CG	ARG	441	51.847	69.695	34.003	1.00	63.34	AAAA	C
ATOM	4224	CD	ARG	441	52.060	68.314	34.595	1.00	67.64	AAAA	C
ATOM	4225	NE	ARG	441	52.244	68.395	36.030	1.00	61.00	AAAA	N
ATOM	4227	CZ	ARG	441	52.326	67.357	36.831	1.00	59.21	AAAA	C
ATOM	4228	NH1	ARG	441	52.258	66.117	36.395	1.00	60.57	AAAA	N
ATOM	4231	NH2	ARG	441	52.468	67.596	38.128	1.00	72.94	AAAA	N
ATOM	4234	C	ARG	441	51.760	70.446	30.511	1.00	73.50	AAAA	C
ATOM	4235	O	ARG	441	52.195	69.424	30.012	1.00	74.73	AAAA	O
ATOM	4236	N	GLN	442	50.732	71.114	30.043	1.00	74.69	AAAA	N
ATOM	4238	CA	GLN	442	49.959	70.646	28.914	1.00	75.13	AAAA	C
ATOM	4239	CB	GLN	442	48.457	70.875	29.126	1.00	68.73	AAAA	C
ATOM	4240	CG	GLN	442	47.669	69.576	29.195	1.00	71.20	AAAA	C
ATOM	4241	CD	GLN	442	47.623	69.028	30.607	1.00	70.98	AAAA	C
ATOM	4242	OE1	GLN	442	47.714	67.822	30.868	1.00	78.66	AAAA	O
ATOM	4243	NE2	GLN	442	47.477	69.907	31.584	1.00	66.86	AAAA	N
ATOM	4246	C	GLN	442	50.326	71.359	27.627	1.00	77.69	AAAA	C
ATOM	4247	O	GLN	442	50.227	72.569	27.530	1.00	75.57	AAAA	O
ATOM	4248	N	ALA	443	50.474	70.554	26.575	1.00	81.54	AAAA	N
ATOM	4250	CA	ALA	443	50.643	71.148	25.236	1.00	82.95	AAAA	C
ATOM	4251	CB	ALA	443	51.104	70.118	24.220	1.00	81.69	AAAA	C
ATOM	4252	C	ALA	443	49.259	71.706	24.952	1.00	83.73	AAAA	C
ATOM	4253	O	ALA	443	48.398	71.744	25.830	1.00	83.87	AAAA	O
ATOM	4254	N	LYS	444	48.914	72.052	23.713	1.00	86.20	AAAA	N
ATOM	4256	CA	LYS	444	47.559	72.524	23.482	1.00	85.88	AAAA	C
ATOM	4257	CB	LYS	444	47.426	73.997	23.128	1.00	83.99	AAAA	C
ATOM	4258	CG	LYS	444	46.673	74.734	24.241	1.00	93.60	AAAA	C
ATOM	4259	CD	LYS	444	45.883	73.841	25.186	1.00	95.14	AAAA	C
ATOM	4260	CE	LYS	444	46.390	73.786	26.614	1.00	97.04	AAAA	C
ATOM	4261	NZ	LYS	444	45.368	73.090	27.473	1.00	97.22	AAAA	N
ATOM	4265	C	LYS	444	46.659	71.779	22.508	1.00	84.20	AAAA	C
ATOM	4266	O	LYS	444	45.428	71.901	22.635	1.00	85.63	AAAA	O
ATOM	4267	N	GLY	445	47.214	70.734	21.916	1.00	78.85	AAAA	N
ATOM	4269	CA	GLY	445	46.368	69.786	21.208	1.00	75.06	AAAA	C
ATOM	4270	C	GLY	445	45.803	68.844	22.260	1.00	72.30	AAAA	C
ATOM	4271	O	GLY	445	44.963	67.993	21.940	1.00	74.90	AAAA	O
ATOM	4272	N	ASP	446	46.300	68.981	23.492	1.00	67.97	AAAA	N
ATOM	4274	CA	ASP	446	45.914	68.174	24.642	1.00	62.81	AAAA	C
ATOM	4275	CB	ASP	446	46.754	68.552	25.873	1.00	55.24	AAAA	C
ATOM	4276	CG	ASP	446	48.213	68.169	25.801	1.00	54.07	AAAA	C
ATOM	4277	OD1	ASP	446	48.693	67.385	24.946	1.00	45.08	AAAA	O
ATOM	4278	OD2	ASP	446	49.091	68.595	26.593	1.00	50.12	AAAA	O
ATOM	4279	C	ASP	446	44.438	68.274	25.016	1.00	58.07	AAAA	C
ATOM	4280	O	ASP	446	43.610	67.369	25.127	1.00	55.59	AAAA	O
ATOM	4281	N	ILE	447	44.043	69.527	25.226	1.00	54.13	AAAA	N
ATOM	4283	CA	ILE	447	42.652	69.822	25.510	1.00	54.09	AAAA	C
ATOM	4284	CB	ILE	447	42.505	70.502	26.877	1.00	48.92	AAAA	C

ATOM	4290	N	ASN	448	41.625	69.915	23.307	1.00	53.17	AAAAA	N
ATOM	4292	CA	ASN	448	41.013	70.642	22.202	1.00	54.61	AAAAA	C
ATOM	4293	CB	ASN	448	41.283	69.982	20.863	1.00	49.17	AAAAA	C
ATOM	4294	CG	ASN	448	40.415	68.786	20.577	1.00	49.40	AAAAA	C
ATOM	4295	OD1	ASN	448	39.287	68.977	20.113	1.00	52.34	AAAAA	O
ATOM	4296	ND2	ASN	448	40.990	67.622	20.871	1.00	52.49	AAAAA	N
ATOM	4299	C	ASN	448	39.518	70.824	22.402	1.00	56.44	AAAAA	C
ATOM	4300	O	ASN	448	38.816	69.974	22.939	1.00	55.83	AAAAA	O
ATOM	4301	N	THR	449	39.071	71.917	21.764	1.00	58.52	AAAAA	N
ATOM	4303	CA	THR	449	37.682	72.351	21.901	1.00	58.62	AAAAA	C
ATOM	4304	CB	THR	449	37.497	73.845	22.169	1.00	55.90	AAAAA	O
ATOM	4305	OG1	THR	449	37.913	74.485	20.943	1.00	68.89	AAAAA	O
ATOM	4307	CG2	THR	449	38.354	74.352	23.310	1.00	59.06	AAAAA	C
ATOM	4308	C	THR	449	36.920	72.053	20.628	1.00	56.82	AAAAA	C
ATOM	4309	O	THR	449	35.750	72.381	20.473	1.00	60.87	AAAAA	O
ATOM	4310	N	ARG	450	37.539	71.304	19.757	1.00	55.76	AAAAA	N
ATOM	4312	CA	ARG	450	36.887	70.935	18.507	1.00	54.66	AAAAA	C
ATOM	4313	CB	ARG	450	37.845	71.179	17.377	1.00	48.33	AAAAA	C
ATOM	4314	CG	ARG	450	38.385	69.975	16.645	1.00	54.81	AAAAA	C
ATOM	4315	CD	ARG	450	39.487	70.561	15.696	1.00	44.92	AAAAA	C
ATOM	4316	NE	ARG	450	40.706	70.719	16.488	1.00	52.49	AAAAA	N
ATOM	4318	CZ	ARG	450	41.544	69.757	16.882	1.00	39.08	AAAAA	C
ATOM	4319	NH1	ARG	450	41.176	68.572	16.466	1.00	41.07	AAAAA	N
ATOM	4322	NH2	ARG	450	42.601	70.001	17.610	1.00	45.18	AAAAA	N
ATOM	4325	C	ARG	450	36.267	69.553	18.557	1.00	56.82	AAAAA	C
ATOM	4326	O	ARG	450	35.186	69.303	17.992	1.00	58.15	AAAAA	O
ATOM	4327	N	ASN	451	36.800	68.583	19.324	1.00	56.66	AAAAA	N
ATOM	4329	CA	ASN	451	36.107	67.311	19.434	1.00	50.27	AAAAA	C
ATOM	4330	CB	ASN	451	36.725	66.127	18.760	1.00	48.54	AAAAA	C
ATOM	4331	CG	ASN	451	38.243	66.143	18.764	1.00	60.51	AAAAA	C
ATOM	4332	OD1	ASN	451	38.779	66.279	19.855	1.00	53.45	AAAAA	O
ATOM	4333	ND2	ASN	451	38.707	65.976	17.506	1.00	54.88	AAAAA	N
ATOM	4336	C	ASN	451	35.849	66.854	20.869	1.00	52.97	AAAAA	C
ATOM	4337	O	ASN	451	35.330	65.750	21.096	1.00	49.71	AAAAA	O
ATOM	4338	N	ASN	452	36.126	67.668	21.851	1.00	51.98	AAAAA	N
ATOM	4340	CA	ASN	452	35.769	67.485	23.229	1.00	55.88	AAAAA	C
ATOM	4341	CB	ASN	452	36.947	67.873	24.136	1.00	54.62	AAAAA	C
ATOM	4342	CG	ASN	452	37.936	66.736	24.285	1.00	60.96	AAAAA	C
ATOM	4343	OD1	ASN	452	37.646	65.633	24.735	1.00	51.30	AAAAA	O
ATOM	4344	ND2	ASN	452	39.153	67.098	23.855	1.00	56.75	AAAAA	N
ATOM	4347	C	ASN	452	34.603	68.385	23.688	1.00	58.11	AAAAA	C
ATOM	4348	O	ASN	452	34.785	69.629	23.657	1.00	55.07	AAAAA	O
ATOM	4349	N	GLY	453	33.444	67.813	23.985	1.00	55.08	AAAAA	N
ATOM	4351	CA	GLY	453	32.313	68.658	24.296	1.00	59.47	AAAAA	C
ATOM	4352	C	GLY	453	31.500	69.269	23.174	1.00	64.95	AAAAA	C
ATOM	4353	O	GLY	453	30.302	69.603	23.276	1.00	65.71	AAAAA	O
ATOM	4354	N	GLU	454	31.910	69.109	21.910	1.00	67.44	AAAAA	N
ATOM	4356	CA	GLU	454	31.266	69.543	20.690	1.00	63.63	AAAAA	C
ATOM	4357	CB	GLU	454	31.739	68.818	19.401	1.00	53.71	AAAAA	C
ATOM	4358	CG	GLU	454	32.348	67.430	19.738	1.00	49.50	AAAAA	C
ATOM	4359	CD	GLU	454	32.368	66.620	18.454	1.00	54.61	AAAAA	C
ATOM	4360	OE1	GLU	454	31.368	66.637	17.702	0.01	54.10	AAAAA	O
ATOM	4361	OE2	GLU	454	33.417	66.003	18.160	0.01	54.17	AAAAA	O
ATOM	4362	C	GLU	454	29.762	69.301	20.767	1.00	65.41	AAAAA	C
ATOM	4363	O	GLU	454	29.022	70.089	20.169	1.00	67.86	AAAAA	O
ATOM	4364	N	ARG	455	29.288	68.187	21.333	1.00	66.45	AAAAA	N
ATOM	4366	CA	ARG	455	27.843	67.997	21.371	1.00	69.33	AAAAA	C
ATOM	4367	CB	ARG	455	27.448	66.733	20.652	1.00	73.38	AAAAA	C
ATOM	4368	CG	ARG	455	28.467	65.912	19.924	1.00	74.27	AAAAA	C
ATOM	4369	CD	ARG	455	27.775	64.740	19.240	1.00	79.54	AAAAA	C
ATOM	4370	NE	ARG	455	27.301	63.638	20.052	1.00	86.31	AAAAA	N
ATOM	4372	CZ	ARG	455	27.802	62.412	20.189	1.00	88.60	AAAAA	C
ATOM	4373	NH1	ARG	455	28.890	61.997	19.538	1.00	84.51	AAAAA	N
ATOM	4376	NH2	ARG	455	27.225	61.523	21.003	1.00	87.36	AAAAA	N
ATOM	4379	C	ARG	455	27.213	67.934	22.756	1.00	67.35	AAAAA	C
ATOM	4380	O	ARG	455	26.423	67.025	22.961	1.00	66.26	AAAAA	O
ATOM	4381	N	ALA	456	27.499	68.879	23.623	1.00	66.52	AAAAA	N
ATOM	4383	CA	ALA	456	26.947	68.906	24.964	1.00	72.01	AAAAA	C
ATOM	4384	CB	ALA	456	27.832	68.147	25.939	1.00	61.84	AAAAA	C
ATOM	4385	C	ALA	456	26.802	70.379	25.371	1.00	75.25	AAAAA	C
ATOM	4386	O	ALA	456	27.706	71.219	25.202	1.00	81.30	AAAAA	O
ATOM	4387	N	SER	457	25.653	70.720	25.939	0.50	71.91	AAAAA	N
ATOM	4389	CA	SER	457	25.431						

ATOM	4397	CA	CYS	458	28.287	73.960	27.972	0.50	72.57	AAAAA	C
ATOM	4398	C	CYS	458	27.949	75.205	28.757	0.50	72.54	AAAAA	C
ATOM	4399	O	CYS	458	27.065	75.128	29.606	0.50	76.63	AAAAA	O
ATOM	4400	CB	CYS	458	29.527	74.171	27.089	0.50	75.38	AAAAA	C
ATOM	4401	SG	CYS	458	30.844	73.032	27.490	0.50	72.18	AAAAA	S
ATOM	4402	N	ALA	459	28.607	76.306	28.441	0.50	70.13	AAAAA	N
ATOM	4404	CA	ALA	459	28.445	77.572	29.116	0.50	70.05	AAAAA	C
ATOM	4405	CB	ALA	459	27.046	78.149	28.996	0.50	70.57	AAAAA	C
ATOM	4406	C	ALA	459	28.826	77.461	30.601	0.50	70.13	AAAAA	C
ATOM	4407	O	ALA	459	29.080	78.556	31.154	0.50	69.96	AAAAA	O
ATOM	4407	OT	ALA	459	28.855	76.301	31.054	0.50	68.22	AAAAA	O
ATOM	4522	C1	NAG	461	59.581	7.102	61.119	1.00	88.13	AAAAA	C
ATOM	4524	C2	NAG	461	59.964	7.338	59.697	1.00	91.94	AAAAA	C
ATOM	4526	N2	NAG	461	58.738	7.699	58.920	1.00	92.72	AAAAA	N
ATOM	4528	C7	NAG	461	58.400	9.020	58.999	1.00	96.97	AAAAA	C
ATOM	4529	O7	NAG	461	58.879	9.774	59.726	1.00	98.62	AAAAA	O
ATOM	4530	C8	NAG	461	57.323	9.390	58.043	1.00	100.60	AAAAA	C
ATOM	4534	C3	NAG	461	60.725	6.225	59.085	1.00	94.77	AAAAA	C
ATOM	4536	O3	NAG	461	61.417	6.725	57.930	1.00	98.51	AAAAA	O
ATOM	4538	C4	NAG	461	61.873	5.869	60.064	1.00	96.01	AAAAA	C
ATOM	4540	O4	NAG	461	62.661	4.821	59.484	1.00	99.20	AAAAA	O
ATOM	4542	C5	NAG	461	61.359	5.529	61.474	1.00	95.13	AAAAA	C
ATOM	4545	C6	NAG	461	62.465	5.321	62.495	1.00	93.66	AAAAA	C
ATOM	4548	O6	NAG	461	62.745	6.364	63.354	1.00	92.13	AAAAA	O
ATOM	4544	O5	NAG	461	60.625	6.648	61.949	1.00	91.92	AAAAA	O
ATOM	4550	C1	NAG	463	33.054	15.249	72.938	1.00	43.58	AAAAA	C
ATOM	4552	C2	NAG	463	31.644	15.282	73.412	1.00	43.62	AAAAA	C
ATOM	4554	N2	NAG	463	30.709	14.527	72.541	1.00	42.16	AAAAA	N
ATOM	4556	C7	NAG	463	29.912	13.584	73.099	1.00	40.84	AAAAA	C
ATOM	4557	O7	NAG	463	29.928	13.406	74.222	1.00	40.10	AAAAA	O
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ATOM	4564	O3	NAG	463	29.979	16.555	74.196	1.00	45.99	AAAAA	O
ATOM	4566	C4	NAG	463	32.117	17.617	74.171	1.00	50.36	AAAAA	C
ATOM	4568	O4	NAG	463	31.596	18.919	73.891	1.00	53.97	AAAAA	O
ATOM	4569	C5	NAG	463	33.589	17.477	73.725	1.00	48.50	AAAAA	C
ATOM	4572	C6	NAG	463	34.490	17.996	74.742	1.00	48.34	AAAAA	C
ATOM	4575	O6	NAG	463	34.906	18.739	75.671	1.00	57.11	AAAAA	O
ATOM	4571	O5	NAG	463	33.942	16.120	73.583	1.00	48.58	AAAAA	O
ATOM	4576	C1	FUC	464	34.544	19.954	76.083	1.00	81.45	AAAAA	C
ATOM	4578	C2	FUC	464	35.179	21.173	75.463	1.00	86.35	AAAAA	C
ATOM	4579	O2	FUC	464	35.153	21.169	74.021	1.00	92.94	AAAAA	O
ATOM	4582	C3	FUC	464	34.252	22.284	75.945	1.00	86.79	AAAAA	C
ATOM	4584	O3	FUC	464	34.691	23.613	75.596	1.00	87.83	AAAAA	O
ATOM	4586	C4	FUC	464	33.871	22.274	77.412	1.00	86.67	AAAAA	C
ATOM	4588	O4	FUC	464	34.598	23.297	78.115	1.00	87.06	AAAAA	O
ATOM	4590	C5	FUC	464	33.921	20.894	78.040	1.00	85.85	AAAAA	C
ATOM	4593	C6	FUC	464	34.279	20.768	79.512	1.00	83.37	AAAAA	C
ATOM	4592	O5	FUC	464	35.042	20.150	77.425	1.00	82.43	AAAAA	O
ATOM	4597	C1	NAG	465	31.575	19.813	74.940	1.00	64.68	AAAAA	C
ATOM	4599	C2	NAG	465	31.267	21.207	74.437	1.00	69.57	AAAAA	C
ATOM	4601	N2	NAG	465	32.480	21.642	73.690	1.00	71.25	AAAAA	N
ATOM	4603	C7	NAG	465	32.401	21.953	72.381	1.00	73.86	AAAAA	C
ATOM	4604	O7	NAG	465	31.373	21.835	71.881	1.00	74.80	AAAAA	O
ATOM	4605	C8	NAG	465	33.679	22.401	71.787	1.00	76.00	AAAAA	C
ATOM	4609	C3	NAG	465	31.050	22.214	75.546	1.00	72.71	AAAAA	C
ATOM	4611	O3	NAG	465	30.713	23.517	75.108	1.00	71.03	AAAAA	O
ATOM	4613	C4	NAG	465	30.035	21.654	76.560	1.00	75.71	AAAAA	C
ATOM	4615	O4	NAG	465	29.993	22.409	77.793	1.00	76.79	AAAAA	O
ATOM	4617	C5	NAG	465	30.498	20.238	76.977	1.00	75.45	AAAAA	C
ATOM	4620	C6	NAG	465	29.461	19.647	77.930	1.00	75.64	AAAAA	C
ATOM	4623	O6	NAG	465	28.385	19.238	77.142	1.00	76.25	AAAAA	O
ATOM	4619	O5	NAG	465	30.514	19.425	75.807	1.00	71.44	AAAAA	O
ATOM	4625	C1	NAG	467	49.927	11.058	87.926	1.00	96.51	AAAAA	C
ATOM	4627	C2	NAG	467	50.538	11.751	89.100	1.00	99.92	AAAAA	C
ATOM	4629	N2	NAG	467	49.662	12.898	89.458	1.00	101.79	AAAAA	N
ATOM	4631	C7	NAG	467	49.299	13.021	90.759	1.00	103.63	AAAAA	C
ATOM	4632	O7	NAG	467	49.541	12.267	91.586	1.00	105.48	AAAAA	O
ATOM	4633	C8	NAG	467	48.526	14.239	91.102	1.00	105.02	AAAAA	C
ATOM	4637	C3	NAG	467	51.967	12.134	88.802	1.00	101.03	AAAAA	C
ATOM	4639	O3	NAG	467	52.535	12.761	89.949	1.00	100.89	AAAAA	O
ATOM	4641	C4	NAG	467	52.643	10.771	88.506	1.00	101.15	AAAAA	C
ATOM	4643	O4	NAG	467	54.067	10.8					

ATOM	4655	C2	NAG	469	56.601	46.993	66.861	1.00 50.42	AAAA C
ATOM	4657	N2	NAG	469	57.106	47.015	65.451	1.00 51.50	AAAA N
ATOM	4659	C7	NAG	469	57.235	48.143	64.746	1.00 48.88	AAAA C
ATOM	4660	O7	NAG	469	56.849	49.101	65.234	1.00 55.62	AAAA O
ATOM	4661	C8	NAG	469	57.838	48.134	63.394	1.00 43.70	AAAA C
ATOM	4665	C3	NAG	469	57.608	46.491	67.844	1.00 49.62	AAAA C
ATOM	4667	O3	NAG	469	58.640	47.461	68.031	1.00 47.76	AAAA O
ATOM	4669	C4	NAG	469	56.843	46.263	69.172	1.00 48.47	AAAA C
ATOM	4671	O4	NAG	469	57.826	45.800	70.134	1.00 50.06	AAAA O
ATOM	4672	C5	NAG	469	55.847	45.130	68.959	1.00 50.81	AAAA C
ATOM	4675	C6	NAG	469	55.190	44.720	70.239	1.00 53.92	AAAA C
ATOM	4678	O6	NAG	469	54.829	45.551	71.193	1.00 56.25	AAAA O
ATOM	4674	O5	NAG	469	54.914	45.599	68.043	1.00 55.45	AAAA O
ATOM	4679	C1	FUC	470	53.830	46.395	71.203	1.00 61.17	AAAA C
ATOM	4681	C2	FUC	470	53.642	47.121	72.534	1.00 59.23	AAAA C
ATOM	4682	O2	FUC	470	54.861	46.876	73.241	1.00 55.14	AAAA O
ATOM	4685	C3	FUC	470	53.421	48.429	71.757	1.00 58.39	AAAA C
ATOM	4687	O3	FUC	470	53.381	49.515	72.637	1.00 56.30	AAAA O
ATOM	4689	C4	FUC	470	52.245	48.255	70.809	1.00 61.24	AAAA C
ATOM	4691	O4	FUC	470	51.061	47.904	71.544	1.00 63.74	AAAA O
ATOM	4693	C5	FUC	470	52.455	47.086	69.828	1.00 62.20	AAAA C
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ATOM	4695	O5	FUC	470	52.567	45.889	70.781	1.00 64.68	AAAA O
ATOM	4700	C1	NAG	471	58.034	46.760	71.149	1.00 37.00	AAAA C
ATOM	4702	C2	NAG	471	58.977	46.225	72.186	1.00 40.30	AAAA C
ATOM	4704	N2	NAG	471	58.958	44.787	72.509	1.00 36.82	AAAA N
ATOM	4706	C7	NAG	471	57.856	44.183	72.903	1.00 44.21	AAAA C
ATOM	4707	O7	NAG	471	56.892	44.744	72.885	1.00 51.50	AAAA O
ATOM	4708	C8	NAG	471	58.202	42.814	73.323	1.00 46.02	AAAA C
ATOM	4712	C3	NAG	471	58.901	47.250	73.291	1.00 34.50	AAAA C
ATOM	4714	O3	NAG	471	59.698	46.917	74.385	1.00 35.84	AAAA O
ATOM	4716	C4	NAG	471	59.645	48.488	72.694	1.00 38.52	AAAA C
ATOM	4718	O4	NAG	471	59.754	49.464	73.694	1.00 37.44	AAAA O
ATOM	4719	C5	NAG	471	59.056	48.958	71.332	1.00 36.94	AAAA C
ATOM	4722	C6	NAG	471	60.116	49.692	70.525	1.00 36.14	AAAA C
ATOM	4725	O6	NAG	471	61.106	50.390	71.080	1.00 43.49	AAAA O
ATOM	4721	O5	NAG	471	58.853	47.785	70.530	1.00 34.98	AAAA O
ATOM	4727	C1	MAN	472	61.035	49.984	73.959	1.00 53.37	AAAA C
ATOM	4729	C2	MAN	472	60.920	51.497	74.260	1.00 56.72	AAAA C
ATOM	4730	O2	MAN	472	59.924	51.584	75.272	1.00 62.11	AAAA O
ATOM	4733	C3	MAN	472	62.216	52.031	74.840	1.00 60.70	AAAA C
ATOM	4735	O3	MAN	472	62.028	53.337	75.383	1.00 60.70	AAAA O
ATOM	4736	C4	MAN	472	62.787	51.161	75.932	1.00 55.46	AAAA C
ATOM	4738	O4	MAN	472	64.085	51.595	76.171	1.00 57.16	AAAA O
ATOM	4740	C5	MAN	472	62.797	49.685	75.511	1.00 52.10	AAAA C
ATOM	4743	C6	MAN	472	63.458	48.905	76.595	1.00 50.32	AAAA C
ATOM	4746	O6	MAN	472	62.990	48.969	77.885	1.00 51.02	AAAA O
ATOM	4742	O5	MAN	472	61.443	49.407	75.200	1.00 53.33	AAAA O
ATOM	4748	C1	MAN	473	62.594	54.401	74.672	1.00 72.61	AAAA C
ATOM	4750	C2	MAN	473	62.417	55.679	75.569	1.00 75.28	AAAA C
ATOM	4751	O2	MAN	473	63.378	56.709	75.348	1.00 74.98	AAAA O
ATOM	4754	C3	MAN	473	60.977	56.163	75.493	1.00 78.65	AAAA C
ATOM	4756	O3	MAN	473	60.841	57.447	76.148	1.00 79.16	AAAA O
ATOM	4758	C4	MAN	473	60.344	56.204	74.114	1.00 78.70	AAAA C
ATOM	4760	O4	MAN	473	58.983	56.571	74.178	1.00 78.93	AAAA O
ATOM	4762	C5	MAN	473	60.499	54.802	73.474	1.00 76.89	AAAA C
ATOM	4765	C6	MAN	473	59.968	54.490	72.091	1.00 74.73	AAAA C
ATOM	4768	O6	MAN	473	60.239	55.469	71.138	1.00 71.38	AAAA O
ATOM	4764	O5	MAN	473	61.916	54.562	73.463	1.00 74.97	AAAA O
ATOM	4408	CB	ALA	479	42.462	74.494	16.374	1.00 82.09	BBBB C
ATOM	4409	C	ALA	479	40.017	74.702	17.001	1.00 91.42	BBBB C
ATOM	4410	O	ALA	479	40.393	75.108	18.103	1.00 96.11	BBBB O
ATOM	4413	N	ALA	479	40.696	74.461	14.624	1.00 88.43	BBBB N
ATOM	4415	CA	ALA	479	41.033	74.108	16.033	1.00 88.85	BBBB C
ATOM	4416	N	ALA	480	38.749	74.752	16.610	1.00 92.12	BBBB N
ATOM	4418	CA	ALA	480	37.684	75.264	17.467	1.00 91.28	BBBB C
ATOM	4419	CB	ALA	480	37.925	76.731	17.769	1.00 86.84	BBBB C
ATOM	4420	C	ALA	480	36.306	75.030	16.849	1.00 91.39	BBBB C
ATOM	4421	O	ALA	480	35.413	74.647	17.610	1.00 93.79	BBBB O
ATOM	4422	N	GLN	481	36.135	75.304	15.564	0.01 89.69	BBBB N
ATOM	4424	CA	GLN	481	34.832	75.164	14.915	1.00 87.19	BBBB C
ATOM	4425	CB	GLN	481	34.471	76.492	14.224	0.01 92.74	BBBB C
ATOM	4426	CG	GLN	481	34.277	77.627	15.220	1.00 99.93	BBBB C
ATOM	4427	CD	GLN	481	34.067	79.003	14.626	1.00 103.59	BBBB C
ATOM	4428	OE1	GLN	481	35.011	79.777	14.381	1.00 103.27	BBBB O
ATOM	4429	NE2	GLN	481	32.792	79.328	14.398	1.00 108.00	BBBB N
ATOM	4432	C	GLN	481	34.755	73.947	14.005	1.00 85.31	BBBB C
ATOM	4433	O	GLN	481	33.736	73.508	13.456	1.00 83.41	BBBB O

Figure 1A-47

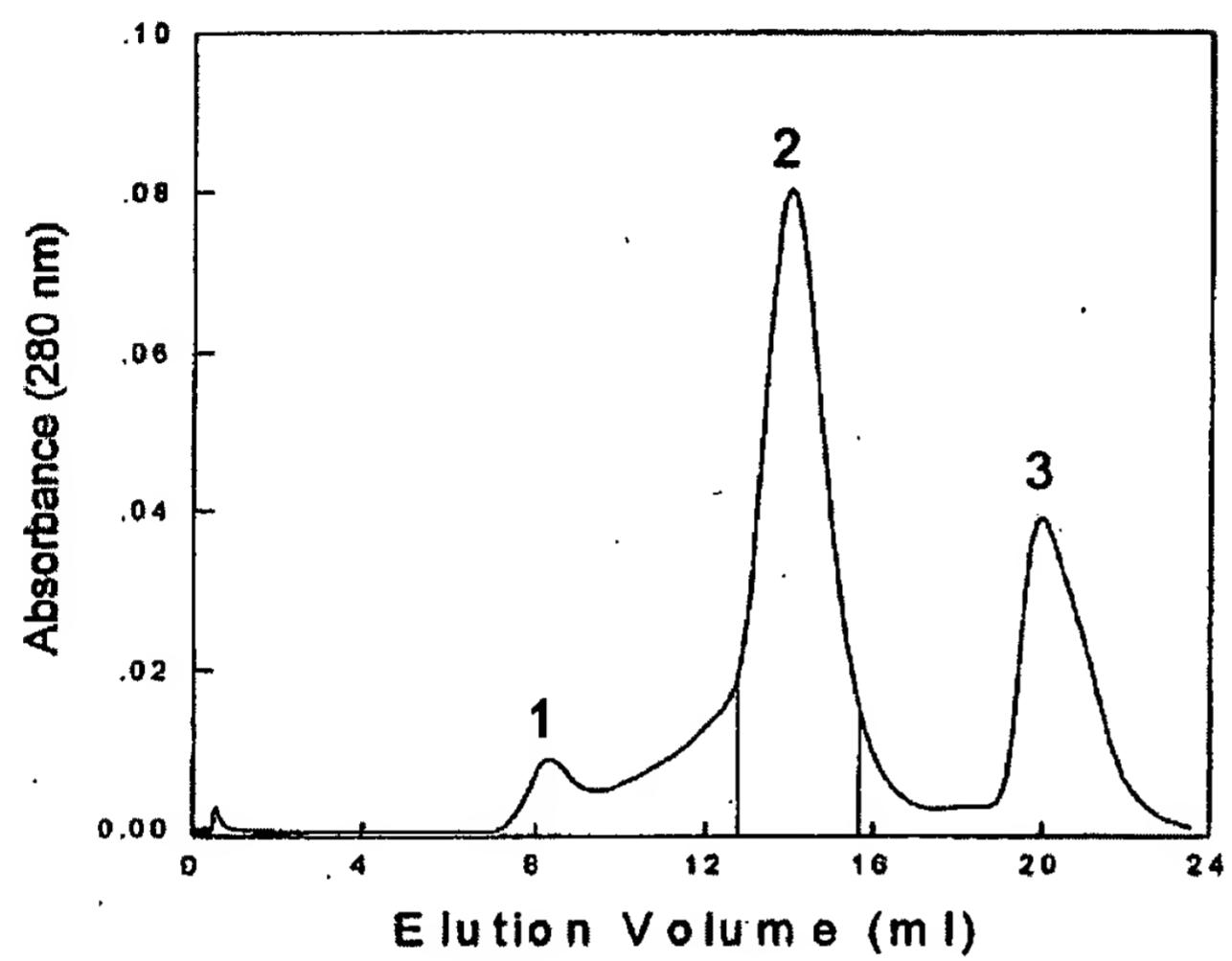
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ATOM	4436	CA	LYS	482	35.982	71.990	13.089	1.00	73.49	BBBB C
ATOM	4437	CB	LYS	482	37.377	71.930	12.480	1.00	73.13	BBBB C
ATOM	4438	CG	LYS	482	38.287	73.128	12.494	1.00	76.33	BBBB C
ATOM	4439	CD	LYS	482	39.413	72.968	11.471	1.00	80.62	BBBB C
ATOM	4440	CE	LYS	482	39.985	74.310	11.027	0.01	76.66	BBBB C
ATOM	4441	NZ	LYS	482	41.252	74.136	10.262	0.01	76.20	BBBB N
ATOM	4445	C	LYS	482	35.779	70.701	13.872	1.00	67.70	BBBB C
ATOM	4446	O	LYS	482	35.879	70.744	15.092	1.00	69.99	BBBB O
ATOM	4447	N	LEU	483	35.530	69.585	13.199	1.00	61.47	BBBB N
ATOM	4449	CA	LEU	483	35.193	68.356	13.896	1.00	59.03	BBBB C
ATOM	4450	CB	LEU	483	34.256	67.529	13.039	1.00	55.20	BBBB C
ATOM	4451	CG	LEU	483	32.779	67.860	12.875	1.00	61.94	BBBB C
ATOM	4452	CD1	LEU	483	32.405	69.154	13.595	1.00	44.78	BBBB C
ATOM	4453	CD2	LEU	483	32.433	67.707	11.385	1.00	44.63	BBBB C
ATOM	4454	C	LEU	483	36.421	67.509	14.229	1.00	59.73	BBBB C
ATOM	4455	O	LEU	483	36.465	66.709	15.165	1.00	57.22	BBBB O
ATOM	4456	N	ILE	484	37.345	67.543	13.262	1.00	56.21	BBBB N
ATOM	4458	CA	ILE	484	38.597	66.822	13.367	1.00	52.58	BBBB C
ATOM	4459	CB	ILE	484	38.480	65.390	12.870	1.00	50.27	BBBB C
ATOM	4460	CG2	ILE	484	37.769	65.319	11.524	1.00	44.85	BBBB C
ATOM	4461	CG1	ILE	484	39.870	64.766	12.756	1.00	39.78	BBBB C
ATOM	4462	CD1	ILE	484	39.888	63.291	12.404	1.00	30.43	BBBB C
ATOM	4463	C	ILE	484	39.623	67.645	12.608	1.00	53.49	BBBB C
ATOM	4464	O	ILE	484	39.158	68.568	11.942	1.00	48.33	BBBB O
ATOM	4465	N	SER	485	40.911	67.499	12.887	1.00	50.86	BBBB N
ATOM	4467	CA	SER	485	41.898	68.335	12.209	1.00	49.78	BBBB C
ATOM	4468	CB	SER	485	41.969	69.753	12.747	1.00	46.06	BBBB C
ATOM	4469	OG	SER	485	43.190	70.035	13.376	1.00	63.03	BBBB O
ATOM	4471	C	SER	485	43.294	67.711	12.240	1.00	50.57	BBBB C
ATOM	4472	O	SER	485	43.510	66.601	12.740	1.00	46.55	BBBB O
ATOM	4473	N	GLU	486	44.246	68.389	11.604	1.00	52.16	BBBB N
ATOM	4475	CA	GLU	486	45.624	67.874	11.509	1.00	59.12	BBBB C
ATOM	4476	CB	GLU	486	46.547	68.683	10.598	1.00	59.71	BBBB C
ATOM	4477	CG	GLU	486	46.221	70.162	10.568	1.00	76.75	BBBB C
ATOM	4478	CD	GLU	486	47.370	71.045	10.983	1.00	80.53	BBBB C
ATOM	4479	OE1	GLU	486	48.315	70.404	11.472	1.00	91.67	BBBB O
ATOM	4480	OE2	GLU	486	47.480	72.289	10.897	1.00	86.00	BBBB O
ATOM	4481	C	GLU	486	46.272	67.773	12.896	1.00	56.50	BBBB C
ATOM	4482	O	GLU	486	46.768	66.747	13.326	1.00	49.83	BBBB O
ATOM	4483	N	GLU	487	45.955	68.738	13.732	1.00	58.37	BBBB N
ATOM	4485	CA	GLU	487	46.129	68.736	15.169	1.00	59.36	BBBB C
ATOM	4486	CB	GLU	487	45.303	69.887	15.729	1.00	61.32	BBBB C
ATOM	4487	CG	GLU	487	45.645	70.232	17.159	1.00	79.21	BBBB C
ATOM	4488	CD	GLU	487	46.397	71.545	17.177	1.00	86.09	BBBB C
ATOM	4489	OE1	GLU	487	45.768	72.610	17.320	1.00	92.00	BBBB O
ATOM	4490	OE2	GLU	487	47.637	71.452	17.026	1.00	96.51	BBBB O
ATOM	4491	C	GLU	487	45.735	67.436	15.841	1.00	58.84	BBBB C
ATOM	4492	O	GLU	487	46.421	67.018	16.761	1.00	61.93	BBBB O
ATOM	4493	N	ASP	488	44.748	66.661	15.474	1.00	56.50	BBBB N
ATOM	4495	CA	ASP	488	44.446	65.347	15.932	1.00	55.61	BBBB C
ATOM	4496	CB	ASP	488	42.947	64.977	15.699	1.00	51.22	BBBB C
ATOM	4497	CG	ASP	488	42.047	66.008	16.267	1.00	45.27	BBBB C
ATOM	4498	OD1	ASP	488	42.114	66.563	17.387	1.00	56.45	BBBB O
ATOM	4499	OD2	ASP	488	41.154	66.399	15.492	1.00	55.11	BBBB O
ATOM	4500	C	ASP	488	45.206	64.211	15.238	1.00	58.91	BBBB C
ATOM	4501	O	ASP	488	44.967	63.042	15.634	1.00	57.00	BBBB O
ATOM	4502	N	LEU	489	45.933	64.513	14.163	1.00	57.39	BBBB N
ATOM	4504	CA	LEU	489	46.659	63.426	13.528	1.00	64.03	BBBB C
ATOM	4505	CB	LEU	489	46.722	63.677	12.024	1.00	62.69	BBBB C
ATOM	4506	CG	LEU	489	45.746	62.788	11.226	1.00	53.71	BBBB C
ATOM	4507	CD1	LEU	489	44.324	63.243	11.514	1.00	51.88	BBBB C
ATOM	4508	CD2	LEU	489	46.072	62.967	9.766	1.00	55.20	BBBB C
ATOM	4509	C	LEU	489	48.017	63.355	14.210	1.00	68.12	BBBB C
ATOM	4510	O	LEU	489	48.860	62.560	13.838	1.00	71.57	BBBB O
ATOM	4511	N	ASN	490	48.306	64.318	15.063	1.00	68.24	BBBB N
ATOM	4513	CA	ASN	490	49.497	64.424	15.855	1.00	75.04	BBBB C
ATOM	4514	CB	ASN	490	49.734	65.910	16.187	1.00	84.46	BBBB C
ATOM	4515	CG	ASN	490	51.191	66.105	16.589	1.00	98.83	BBBB C
ATOM	4516	OD1	ASN	490	52.082	65.342	16.178	1.00	97.25	BBBB O
ATOM	4517	ND2	ASN	490	51.459	67.128	17.407	1.00	100.47	BBBB N
ATOM	4520	C	ASN	490	49.350	63.610	17.139	1.00	80.30	BBBB C
ATOM	4521	O	ASN	490	49.891	62.484	17.264	1.00	80.97	BBBB O
ATOM	4521	OT	ASN	490	48.510	64.012	18.001	1.00	89.51	BBBB O
ATOM	4770	S	SUL	493	37.234	-7.808	65.465	1.00	108.87	DDDD S
ATOM	4771	O1	SUL	493	38.452	-7.921	66.345	1.00	112	

ATOM	4774	O4	SUL	493	36.333	-8.978	65.639	1.00107.58	DDDD O
ATOM	4775	S	SUL	494	56.567	19.753	66.302	1.00109.81	DDDD S
ATOM	4776	O1	SUL	494	56.597	19.128	67.659	1.00107.98	DDDD O
ATOM	4777	O2	SUL	494	57.964	20.027	65.795	1.00112.59	DDDD O
ATOM	4778	O3	SUL	494	55.749	21.006	66.267	1.00111.35	DDDD O
ATOM	4779	O4	SUL	494	55.886	18.792	65.379	1.00109.86	DDDD O
ATOM	4780	S	SUL	495	34.533	11.240	75.722	1.00114.67	DDDD S
ATOM	4781	O1	SUL	495	35.274	12.213	76.595	1.00111.38	DDDD O
ATOM	4782	O2	SUL	495	35.476	10.329	74.974	1.00113.60	DDDD O
ATOM	4783	O3	SUL	495	33.552	11.860	74.748	1.00112.77	DDDD O
ATOM	4784	O4	SUL	495	33.773	10.278	76.604	1.00113.18	DDDD O
ATOM	4785	S	SUL	496	35.466	24.844	59.093	1.00 50.73	DDDD S
ATOM	4786	O1	SUL	496	35.613	24.843	60.607	1.00 62.59	DDDD O
ATOM	4787	O2	SUL	496	36.002	23.581	58.571	1.00 48.59	DDDD O
ATOM	4788	O3	SUL	496	35.880	26.084	58.455	1.00 56.74	DDDD O
ATOM	4789	O4	SUL	496	33.958	24.953	59.034	1.00 59.34	DDDD O
ATOM	4790	S	SUL	497	47.653	-2.303	70.199	1.00 68.98	DDDD S
ATOM	4791	O1	SUL	497	47.849	-1.058	70.996	1.00 68.52	DDDD O
ATOM	4792	O2	SUL	497	48.594	-2.509	69.072	1.00 70.94	DDDD O
ATOM	4793	O3	SUL	497	46.187	-2.393	69.810	1.00 73.47	DDDD O
ATOM	4794	O4	SUL	497	47.799	-3.446	71.129	1.00 71.33	DDDD O
ATOM	4795	S	SUL	498	56.527	35.758	75.513	1.00 71.48	DDDD S
ATOM	4796	O1	SUL	498	55.870	35.013	76.621	1.00 72.97	DDDD O
ATOM	4797	O2	SUL	498	57.759	34.996	75.167	1.00 69.11	DDDD O
ATOM	4798	O3	SUL	498	56.619	37.237	75.785	1.00 72.45	DDDD O
ATOM	4799	O4	SUL	498	55.623	35.809	74.330	1.00 72.74	DDDD O
ATOM	4800	S	SUL	499	40.639	27.365	69.499	1.00 74.04	DDDD S
ATOM	4801	O1	SUL	499	40.218	26.039	70.045	1.00 76.00	DDDD O
ATOM	4802	O2	SUL	499	42.089	27.608	69.835	1.00 75.15	DDDD O
ATOM	4803	O3	SUL	499	39.823	28.467	70.098	1.00 77.27	DDDD O
ATOM	4804	O4	SUL	499	40.424	27.245	68.018	1.00 75.70	DDDD O
ATOM	4805	S	SUL	500	44.996	53.228	20.568	1.00 83.89	DDDD S
ATOM	4806	O1	SUL	500	45.080	54.400	21.461	1.00 84.79	DDDD O
ATOM	4807	O2	SUL	500	46.109	52.266	20.827	1.00 90.38	DDDD O
ATOM	4808	O3	SUL	500	45.032	53.674	19.135	1.00 92.23	DDDD O
ATOM	4809	O4	SUL	500	43.762	52.396	20.723	1.00 91.61	DDDD O
ATOM	4810	OW	WAT	501	29.970	6.904	77.713	1.00 34.84	DDDD O
ATOM	4813	OW	WAT	502	42.522	18.998	78.232	1.00 55.27	DDDD O
ATOM	4816	OW	WAT	503	37.561	21.003	67.518	1.00 41.63	DDDD O
ATOM	4819	OW	WAT	504	50.446	5.721	63.485	1.00 57.37	DDDD O
ATOM	4822	OW	WAT	505	56.668	24.854	72.729	1.00 57.34	DDDD O
ATOM	4825	OW	WAT	506	50.605	57.695	22.727	1.00 54.26	DDDD O
ATOM	4828	OW	WAT	507	55.123	37.781	61.204	1.00 43.71	DDDD O
ATOM	4831	OW	WAT	508	17.414	-9.070	74.793	1.00 48.79	DDDD O
ATOM	4834	OW	WAT	509	44.263	20.885	63.811	1.00 28.64	DDDD O
ATOM	4837	OW	WAT	510	45.085	19.708	84.433	1.00 49.09	DDDD O
ATOM	4840	OW	WAT	511	33.537	1.927	71.115	1.00 60.39	DDDD O
ATOM	4843	OW	WAT	512	19.279	4.902	75.254	1.00 55.23	DDDD O
ATOM	4846	OW	WAT	513	11.502	-0.835	68.996	1.00 57.51	DDDD O
ATOM	4849	OW	WAT	514	24.591	17.207	56.665	1.00 56.36	DDDD O
ATOM	4852	OW	WAT	515	56.947	34.914	62.552	1.00 36.47	DDDD O
ATOM	4855	OW	WAT	516	58.092	39.983	66.234	1.00 30.34	DDDD O
ATOM	4858	OW	WAT	517	48.308	40.726	56.768	1.00 81.69	DDDD O
ATOM	4861	OW	WAT	518	25.776	2.355	85.630	1.00 66.34	DDDD O
ATOM	4864	OW	WAT	519	30.644	68.108	30.765	1.00 82.28	DDDD O
ATOM	4867	OW	WAT	520	38.739	54.257	43.611	1.00 43.41	DDDD O
ATOM	4870	OW	WAT	521	22.886	4.470	64.871	1.00 48.71	DDDD O
ATOM	4873	OW	WAT	522	30.938	50.249	19.364	1.00 54.00	DDDD O
ATOM	4876	OW	WAT	523	32.413	9.061	42.441	1.00 44.45	DDDD O
ATOM	4879	OW	WAT	524	41.019	42.560	55.653	1.00 43.40	DDDD O
ATOM	4882	OW	WAT	525	54.268	51.393	37.513	1.00 55.10	DDDD O
ATOM	4885	OW	WAT	526	37.130	13.599	81.397	1.00 46.49	DDDD O
ATOM	4888	OW	WAT	527	42.585	10.244	84.472	1.00 35.95	DDDD O
ATOM	4891	OW	WAT	528	43.661	61.633	18.450	1.00 41.05	DDDD O
ATOM	4894	OW	WAT	529	27.980	19.862	53.348	1.00 54.59	DDDD O
ATOM	4897	OW	WAT	530	59.527	38.520	64.116	1.00 37.96	DDDD O
ATOM	4900	OW	WAT	531	22.451	1.046	57.437	1.00 59.31	DDDD O
ATOM	4903	OW	WAT	532	30.380	16.123	70.205	1.00 40.39	DDDD O
ATOM	4906	OW	WAT	533	46.835	27.888	65.854	1.00 52.34	DDDD O
ATOM	4909	OW	WAT	534	39.446	49.001	45.379	1.00 46.05	DDDD O
ATOM	4912	OW	WAT	535	46.992	51.272	50.722	1.00 52.62	DDDD O
ATOM	4915	OW	WAT	536	44.263	18.776	73.017	1.00 40.61	DDDD O
ATOM	4918	OW	WAT	537	33.670	58.861	20.848	1.00 51.56	DDDD O
ATOM	4921	OW	WAT	538	52.469	21.639	73.804	1.00 61.98	DDDD O
ATOM	4924	OW	WAT	539	49.985	44.871	37.324	1.00 45.45	DDDD O
ATOM	4927	OW	WAT	540	24.074	-1.791	60.077	1.00 40.40	DDDD O
ATOM	4930	OW	WAT	541	35.207	0.714	79.039	1.00 51.34	DDDD O
ATOM	4933	OW	WAT	542	31.231	-1.176	62.362	1.00 48.33	DDDD O

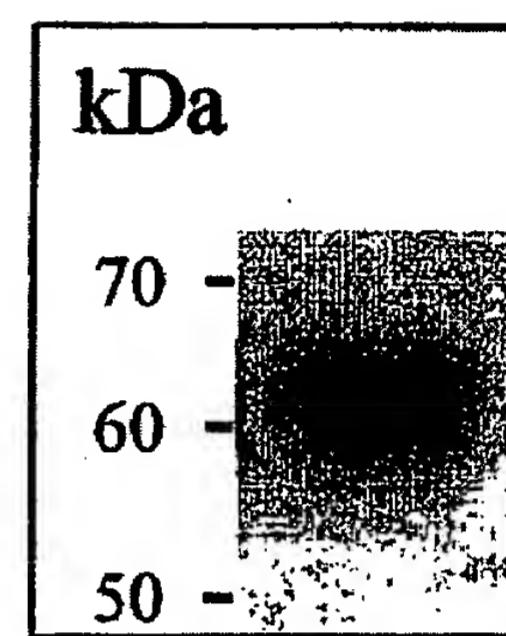
Figure 1A-

ATOM 4936 OW WAT 543 41.726 -5.156 55.290 1.00 60.67 DDDD O  
ATOM 4939 OW WAT 544 48.564 37.335 72.612 1.00 71.69 DDDD O  
ATOM 4942 OW WAT 545 49.501 40.030 67.582 1.00 44.88 DDDD O  
ATOM 4945 OW WAT 546 54.851 7.987 60.018 1.00 49.91 DDDD O  
ATOM 4948 OW WAT 547 30.459 -14.058 70.554 1.00 84.42 DDDD O  
ATOM 4951 OW WAT 548 57.310 32.779 60.848 1.00 50.77 DDDD O  
END

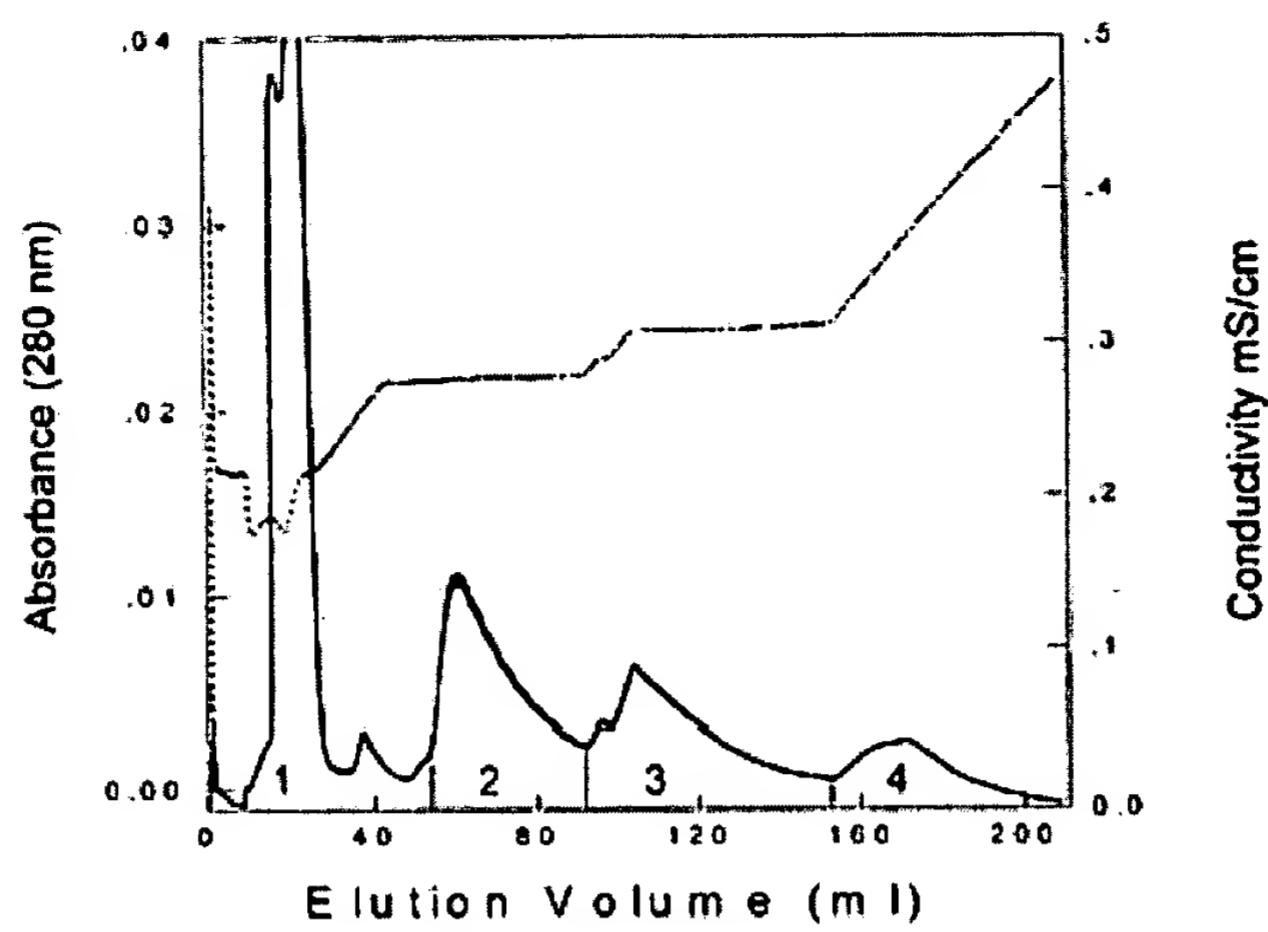
**Figure 1A-50**



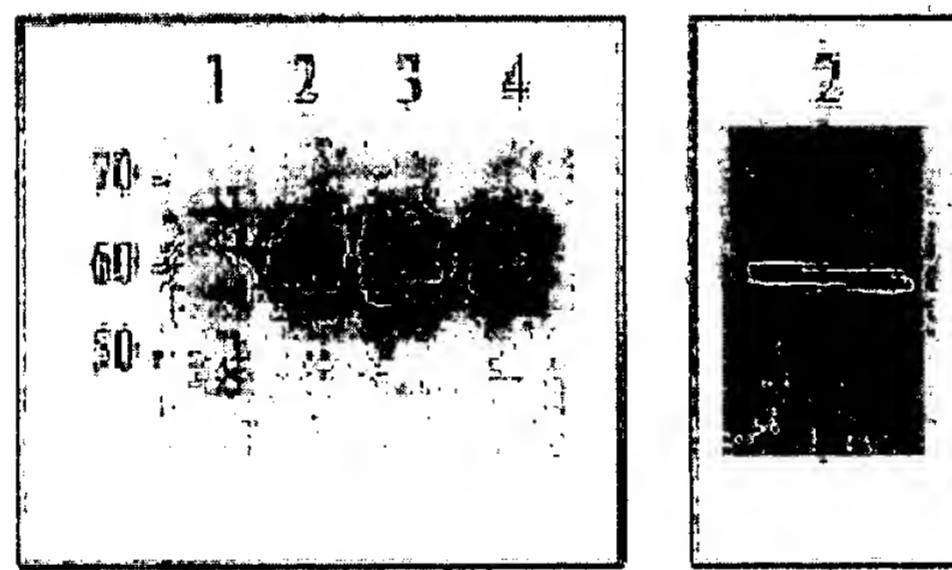
**Figure 3a**



**Figure 3b**

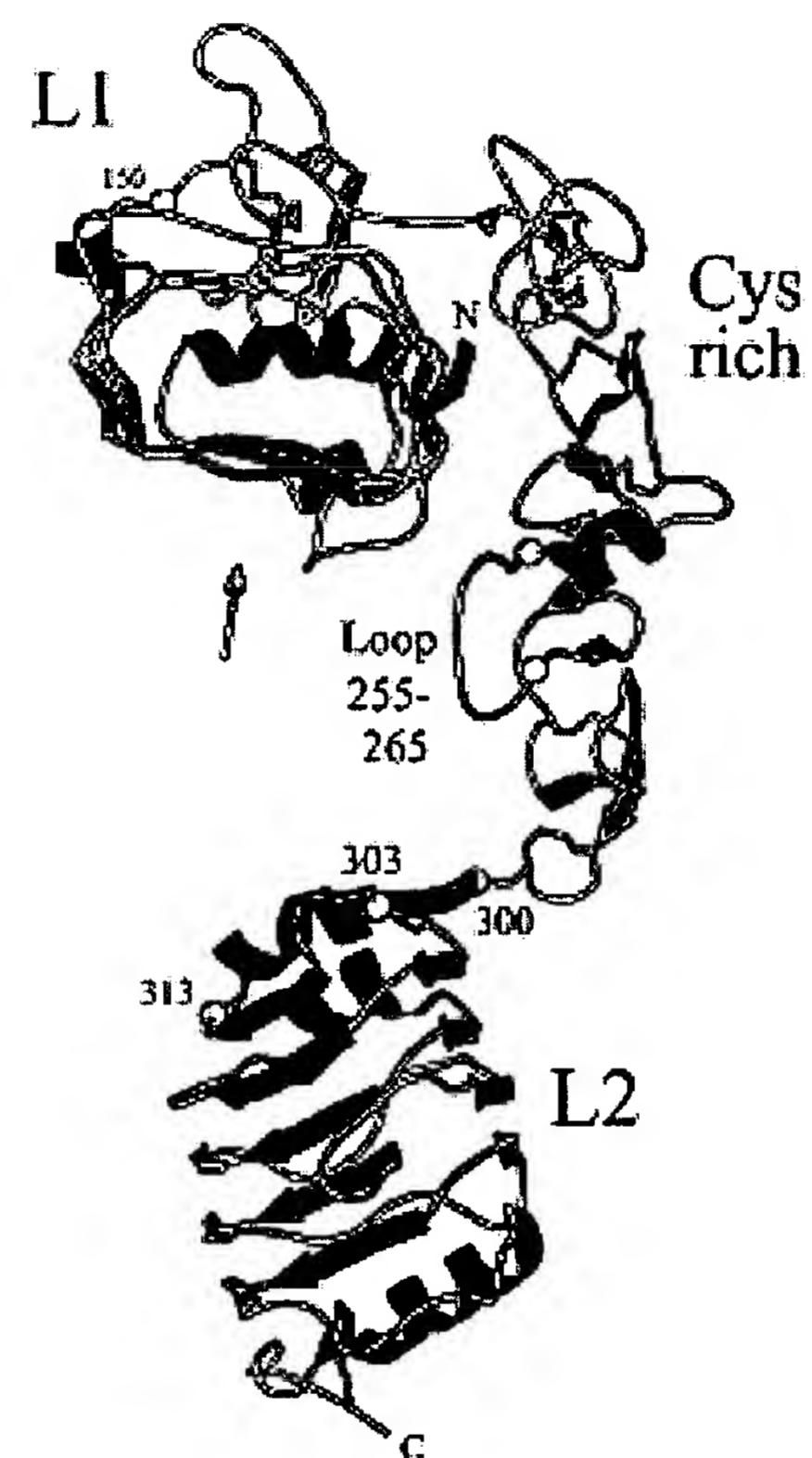


**Figure 4a**



**Figure 4b**

**Figure 4c**



**Figure 5**

**a**

IGF1R L1 1 E I C G P G I D I R N D Y Q Q L K R I L E N C T Y T E G Y L H I L L I S K A E D Y R S 42  
 IR L1 1 H L Y P G E V C P G M D I R N N L T R L H E L L E N C S V V I E G H L Q I L L M F K T R P E D F R D 48  
 EGFR L1 1 K V C I Q G T S N K L (9) F L S L Q R M F F N N C E V V I L G G N L E I I T Y V Q R N Y D 51  
 EGFR L2 311 K V C N G I G I G E (7) N A T N I K H F K N C T S I S G G D L H I L P V A F R (7) P P L D P Q E 367  
 IR L2 310 K V C H L L E G E K T I D S V T S A Q E L L R G C T Y V I N G G S L I N I R G G N N L A A E L E 355  
 IGF1R L2 300 K V C E E E K K T K T I D S V T S A Q M L Q G C T I F K G N L I N I R R G N N I A S E L E 345

Y R F P K L T V I T E Y L L L F R V A G L E S L G D L F P N L T V I R G F K L F Y N Y A L V F E M T N L K D I G L 100  
 L S F P K K L I M I T D Y L L L F R V Y G L E S L K D L F P N L T V I R G S R L F F N Y A L V I F E M V H L K E L G L 106  
 L S F L K K T I Q E V A G Y V L L I A L N T V E R I P L E N L Q R G N M Y Y E N S Y A L V I L S N Y D A N K T G L 108  
 L D I L K K T I V K E I T T G F L L I Q A W P E N R T D L H A F E N L E I I R G R T K Q H G Q F S L A V V V S L N I T S L G L 426  
 A N L G L I I E E I S G Y L K I I R R S Y A L V S L S F F R K L R L I R G E T L E I G N Y S F Y A L D N Q N L R Q L W D 413  
 N F M G L I E V V T G Y Y K I R H S H A L V S L S F I K N I R L I I G E E Q L E G N Y S F Y V I D N Q N L Q Q L W D 403

Y N L R N I T R G A I R E K N A D L C Y L S T V D W S L I L D A V S N N Y V V G N X P P K E C G D 150  
 Y N L M N I T R G S V R I E K N N E L C Y L S T V D W S L I L D A V S N N Y V V G N X P P K E C G D 157  
 K (2) P M R N L Q E I S D G D D V I I S G N K N L C Y A N T I N W K K L F G T S D F L I S N M S M D F Q N H L G S C Q K 165  
 R I S L L K E I S D G D D V I I S G N K N L C Y A N T I N W K K L F G T S D F L I S N M S M D F Q N H L G S C Q K 477  
 W S K H N L T I T Q G K L F F H Y N P K L C L S E I H K M E E V S G T K G R Q E R N D I A L K T N G D K A S C E N 470  
 W D H R N T I T Q G K L F F H Y N P K L C L S E I Y R M E E V T G T G K G R Q S K G D I N T R N V N G E R A S C E S 460

**b**

IGF1R 150 D L C P G T M E E K P M C E K T T I N N E Y N Y R C W T T N R C Q K 183  
 IR 157 D I C P G T A K G K T N C P A T V I N G Q F V E R C W T H S H C Q K 190  
 EGFR D2 165 K C D P S C P N G S C W G A G E E N C Q K L T K I 189  
 EGFR D4 480 Q V C H A L C S P E G C W G P E P R D C V s c r n v s r g r e c v d k 515

Module 1

IGF1R 150 D L C P G T M E E K P M C E K T T I N N E Y N Y R C W T T N R C Q K 183  
 IR 157 D I C P G T A K G K T N C P A T V I N G Q F V E R C W T H S H C Q K 190  
 EGFR D2 165 K C D P S C P N G S C W G A G E E N C Q K L T K I 189  
 EGFR D4 480 Q V C H A L C S P E G C W G P E P R D C V s c r n v s r g r e c v d k 515

Module 2

IGF1R 150 D L C P G T M E E K P M C E K T T I N N E Y N Y R C W T T N R C Q K 183  
 IR 157 D I C P G T A K G K T N C P A T V I N G Q F V E R C W T H S H C Q K 190  
 EGFR D2 165 K C D P S C P N G S C W G A G E E N C Q K L T K I 189  
 EGFR D4 480 Q V C H A L C S P E G C W G P E P R D C V s c r n v s r g r e c v d k 515

Module 3

IGF1R 150 D L C P G T M E E K P M C E K T T I N N E Y N Y R C W T T N R C Q K 183  
 IR 157 D I C P G T A K G K T N C P A T V I N G Q F V E R C W T H S H C Q K 190  
 EGFR D2 165 K C D P S C P N G S C W G A G E E N C Q K L T K I 189  
 EGFR D4 480 Q V C H A L C S P E G C W G P E P R D C V s c r n v s r g r e c v d k 515

Module 4

IGF1R 150 D L C P G T M E E K P M C E K T T I N N E Y N Y R C W T T N R C Q K 183  
 IR 157 D I C P G T A K G K T N C P A T V I N G Q F V E R C W T H S H C Q K 190  
 EGFR D2 165 K C D P S C P N G S C W G A G E E N C Q K L T K I 189  
 EGFR D4 480 Q V C H A L C S P E G C W G P E P R D C V s c r n v s r g r e c v d k 515

Module 5

IGF1R 150 D L C P G T M E E K P M C E K T T I N N E Y N Y R C W T T N R C Q K 183  
 IR 157 D I C P G T A K G K T N C P A T V I N G Q F V E R C W T H S H C Q K 190  
 EGFR D2 165 K C D P S C P N G S C W G A G E E N C Q K L T K I 189  
 EGFR D4 480 Q V C H A L C S P E G C W G P E P R D C V s c r n v s r g r e c v d k 515

Module 6

IGF1R 150 D L C P G T M E E K P M C E K T T I N N E Y N Y R C W T T N R C Q K 183  
 IR 157 D I C P G T A K G K T N C P A T V I N G Q F V E R C W T H S H C Q K 190  
 EGFR D2 165 K C D P S C P N G S C W G A G E E N C Q K L T K I 189  
 EGFR D4 480 Q V C H A L C S P E G C W G P E P R D C V s c r n v s r g r e c v d k 515

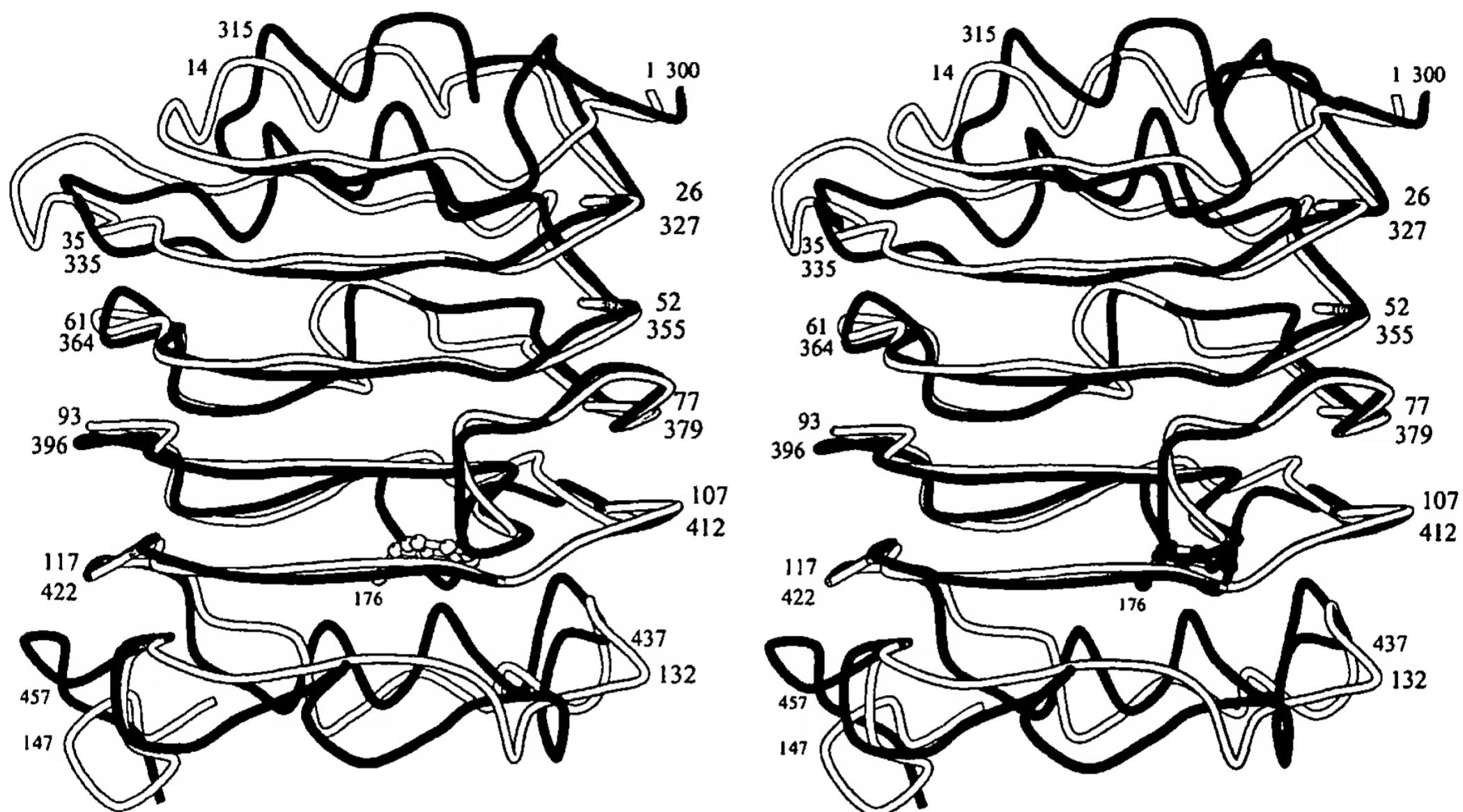
Module 7

IGF1R 150 D L C P G T M E E K P M C E K T T I N N E Y N Y R C W T T N R C Q K 183  
 IR 157 D I C P G T A K G K T N C P A T V I N G Q F V E R C W T H S H C Q K 190  
 EGFR D2 165 K C D P S C P N G S C W G A G E E N C Q K L T K I 189  
 EGFR D4 480 Q V C H A L C S P E G C W G P E P R D C V s c r n v s r g r e c v d k 515

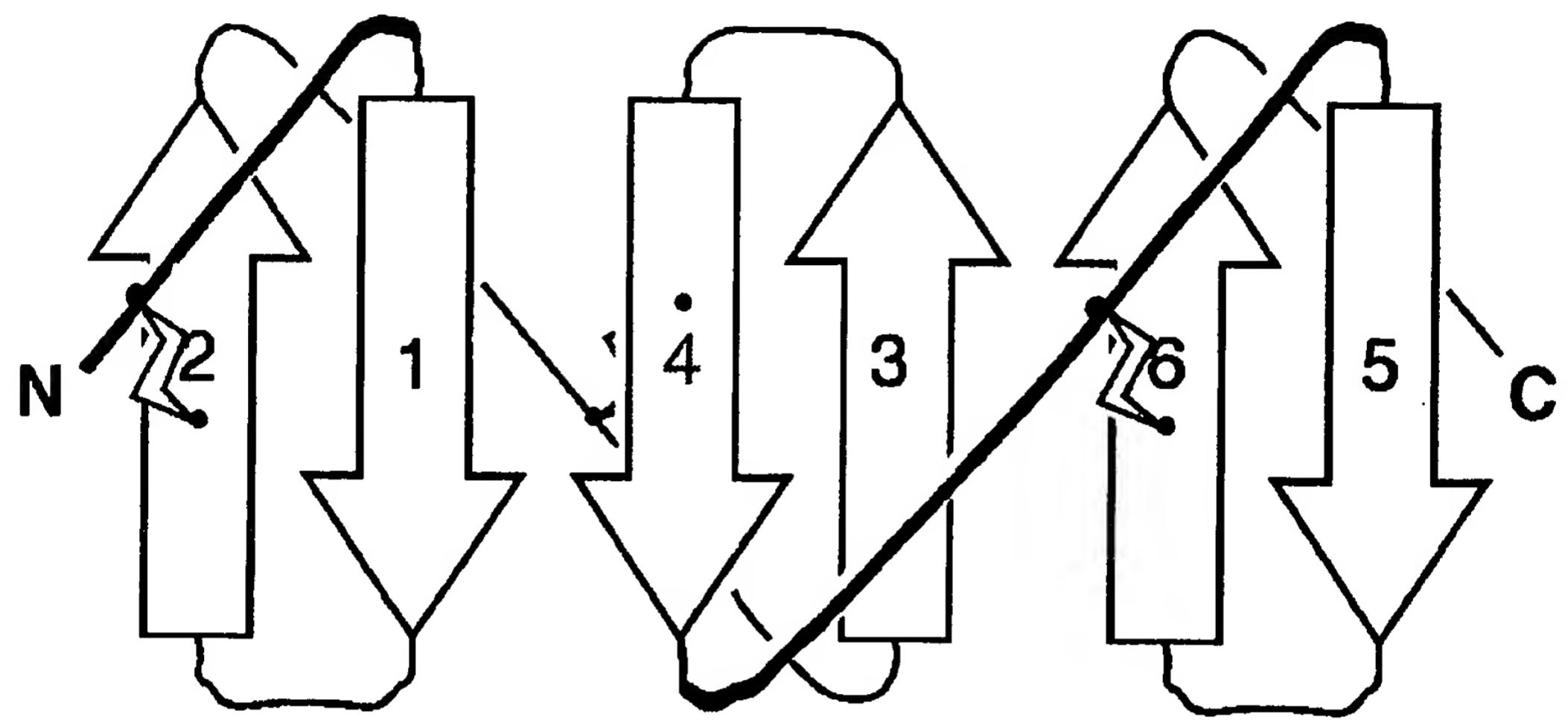
Module 8

IGF1R 150 D L C P G T M E E K P M C E K T T I N N E Y N Y R C W T T N R C Q K 183  
 IR 157 D I C P G T A K G K T N C P A T V I N G Q F V E R C W T H S H C Q K 190  
 EGFR D2 165 K C D P S C P N G S C W G A G E E N C Q K L T K I 189  
 EGFR D4 480 Q V C H A L C S P E G C W G P E P R D C V s c r n v s r g r e c v d k 515

**Figure 6**



**Figure 7**



**Figure 8**

## Sequence Alignment of hIGF-1R, hIR and hIRR ectodomains.

Derived by use of the PileUp program in the software package of the Genetics Computer Group,  
575 Science Drive, Madison, Wisconsin, USA.

Symbol Comparison table: GenRunData:PileUpPep.Cmp CompCheCk: 1254

GapWeight: 3.0  
GapLengthWeight: 0.1

Name: Higflr	Len: 972	CheCk: 1781	Weight: 1.00
Name: Hir	Len: 972	CheCk: 2986	Weight: 1.00
Name: Hirr	Len: 972	CheCk: 9819	Weight: 1.00

*	*
Higf1r	.....EICGP GIDIRNDYQQ LKRLEN <u>CTVI</u> EGYLHILLIS K..AEDYRSY 43
Hir	HLYPGEVC.P GMDIRNN <u>LTR</u> LHELEN <u>CSVI</u> EGHLQILLMF KTRPEDFRDL 49
Hirr	MNVC P SLDI <u>RSEVAE</u> LROLEN <u>CSVV</u> EGHLQILLMF TATGEDFRGL 45

Higf1r	RFPKLTVITE YLLLFRVAGL ESLGDLFPNL <u>TVIRGWKLFY</u> NYALVIFEMT	93
Hir	SFPKLIMITD YLLLFRVYGL ESLKDLFPNL <u>TVIRGSRLFF</u> NYALVIFEMV	99
Hirr	SFPRLTOVTD YLLLFRVYGL ESLRDLFPNL <u>AVIRGTRLFL</u> GYALVIFEMP	95

\*

Higf1r	NLKDIGLYNL <u>RNIT</u> RGAIRI	EKNADLCYLS	TVDWSLILDA	VSNNYIVGNK	143	
Hir	HLKELGLYNL <u>MNIT</u> RGCSVRI	EKNNELCYLA	TIDWSRILDS	VEDNYIVLNK	149	
Hirr	HLRDVALPAI	GAVLRGAVRV	EKNOELCHLS	TIDWGLLOPA	PGANHIVGNK	145

* * *	*	* * *	*			
Higflr	PPK.ECGDLC	PGTMEEKPM.	CEKTTINNEY	NYRCWTTNRC	QKMCPCSTCGK	191
Hir	DDNEECGDIC	PGTAKGKTN.	CPATVINGQF	VERCWTHSHC	QKVCPTICKS	198
Hirr	LG.EEGADVC	PGVLGAAGEP	CAKTTEFSGHT	DYRCWTSSSHG	ORVCPCPHG.	193

*	**	*	*	*	*	*	*
Higf1r	RACTENNECC	HPECLGSCSA	PD <u>NDT</u> ACVAC	RHYYYAGVCV	PACPPNTYRF	241	
Hir	HGCTAEGLCC	HSECLGN <u>CSQ</u>	PDDPTKCVAC	RNFYLDGRCV	ETCPPPYHF	248	
Hirr	MACTARCECC	HTECLGG <u>CSQ</u>	PEDPRACVAC	RHLYFOGACI	WACPPGTQY	243	

*	*	*-----*	*	*		
Higfir	EGWRCVDRDF	CANILSAES. . . SDSEGTV	IHDGECMQEC	PSGFIR <u>NG</u> SQ	287	
Hir	QDWRCVNFSF	CQDLHHKCKN	SRRQGCHQYY	IHNNKCIPEC	PSGYTM <u>NS</u> SN	298
U...u	EGWRCVTAER	CASLUUSVPC	BASTEC	IHOCSCLAOC	PSGETRNSS	287

\* \* \* \* \*

Higf1r	SMYCIPCEGP CPKVCEEEKK TKTIDSVTSA QMLQGCTIFK GNLLINIRRG	337
Hir	.LLCTPCLGP CPKVCHLLEG EKTIDSVTSA QELRGCTVIN <u>GSLI</u> INIRGG	347
W	SIECYKCEGL CPKECKY S TKTIDSVTSA QDLVCGCTHVE GSLIINIRGG	335

Higfir	NNIASELENF MGLIEVVTGY VKIRHSHALV SLSFLKNLRL ILGEEQLEG <u>N</u>	387
Hir	NNLAAELEAN LGLIEEISGY LKIRRSYALV SLSFFRKRLRL IRGETLEIGN <u>N</u>	397
Hinn	XNIEPOLOHS LCLVETITGE LKIKHSEALV SLGEEKNLKL TRGDAMVDGN	385

Higf1r	<u>YSFYVLDNQN</u> LQQLWDWDHR <u>NLT</u> I KAGKMY FAFNPKLCVS EIYRMEEVTG	437
Hir	<u>YSFYALDNQN</u> LRQLWDWSKH <u>NLT</u> ITQGKLF FHYNPKLCLS EIHKMEEVSG	447
Hirr	YTLVYLDNQN LQQLGSWVAA GLTIPVGKJY FAFNPRLCLE HIYRLEEVVTG	435

Figure 9

\* !End of 1-462 fragment

Higf1r	TKGRQSKGDI NTRNNGERAS CESDV LHFTS TTTSKNRIII TWHRYRPPDY	487
Hir	TKGRQERNDI ALKTNGDQAS CENEL LKFSY IRTSFIDKILL RWEPYWPPDF	497
Hirr	TRGRQNKAEI NPRTNGDRAA CQRTT LRFVS <u>NVTEADRILL</u> RWERYEPLEA	485
*		
Higf1r	RDLLISFTVYY KEAPFKNVTE YDGQDACGSN SWNMVDVDLP . . . . PNKDV	532
Hir	RDLLGFMLFY KEAPYQ <u>NVTE</u> FDGQDACGSN SWTVVDIDPP LRSNDPKSQN	547
Hirr	RDLLSFIVYY KESPF <u>QNATE</u> HVGPDACGTQ SWNLLDVELP L . . . . SRTQ	530
Higf1r	EPGILLHGLK PWTQYAVYVK AVTLMVEND HIRGAKSEIL YIRTNASVPS	582
Hir	HPGWLMRGLK PWTQYAI <sup>F</sup> VK TL.VTFSDER RTYGAKSDII YVQTDATNPS	596
Hirr	EPGVTLASLK PWTQYAVFVR AITLTTEEDS PHQGAQSPIV YLRTLPAAPT	580
Higf1r	IPLDVLSASN <u>SSSQLIVKWN</u> PPSLPNGNLS YYIVRWQRQP QDGYLYRHNY	632
Hir	VPLDPISVSN <u>SSSQIILKWK</u> PPSDPNGNIT HYLVFWERQA EDSSELFELDY	646
Hirr	VPQDVISTSN <u>SSSHLLVRWK</u> PPTQRNGNLT YYLVLWQRLA EDGDLYLNDY	630
*	* * * * *	
Higf1r	CSKD.KIPIR KYADGTIDIE EVTENPKTEV CGGEKGPCCA C . . . PKTEAE	678
Hir	CLKGLKLPSR TWS.PPFSE DSQKH <u>NQSE</u> . YEDSAGECCS C . . . PKTDSQ	691
Hirr	CHRGLRLPTS N.NDPRFDGE DGDPEAEME. . . . . SDCCP CQHPPPGQVL	673
	$\alpha$ - - - - - > < - - - - $\beta$	
Higf1r	KQAEKEEA <sup>E</sup> Y RKVFENFLHN SIFVPRPERK RRDVMQVANT <u>TMSSRSRNTT</u>	728
Hir	ILKELEESSF RKTfedYLHN VVFVPRPSRK RRSLGDVGNV TVAVP . . . TV	738
Hirr	PPLEAQEASF QKKFENFLHN AITIPISPWK VTSINKSPQR D.SGRHRRRAA	722
	*	
Higf1r	AA..DTYNIT DPEELETEYP FFESRVDNKE RTVISNLRPF TLYRIDIHSC	776
Hir	AAFPNTSSTS VPTSPEEHRP F . . EKVVNKE SLVISGLRF TGYRIELQAC	786
Hirr	GPLRLGGN <u>SS</u> DFEIQEDKVP . . . . . RE RAVLSGLRF TEYRIDIHAC	764
*		
Higf1r	NHEAEKLGCS ASN <sup>F</sup> VFARTM PAEGADDIPG PVTWEPRPEN SIFLKWPEPE	826
Hir	NQDTPEERCS VAAVVSARTM PEAKADDIVG PVTHEIFENN VVHLMWQEPK	836
Hirr	NHAAHTVGCS AATFVFARTM PHREADGIPG KVAWEASSKN SVLLRWLEPP	814
	* *	
Higf1r	NPNGLILMYE IKYGS.QVED QRECVRQ <sup>E</sup> Y RKYGGAKLNR LNPGNYTARI	875
Hir	EPNGLIVLYE VSYRRYGD <sup>E</sup> E LHLCVSRKHF ALERGCR <sup>L</sup> RG LSPGNYSVRI	886
Hirr	DPNGLILKYE IKYRRLGEEA TVLCVSR <sup>L</sup> RY AKFGGVHLAL LPPGNYSARV	864
Higf1r	QATSLSGNGS WTDPVFFYVQ AKTGYENFIH L	906
Hir	RATSLAGNGS WTEPTYFYVT DYLDVPSNIA K	917
Hirr	RATSLAGNGS WTDSVAFYIL GPEEEDAGGL H	895

**Figure 9-A**

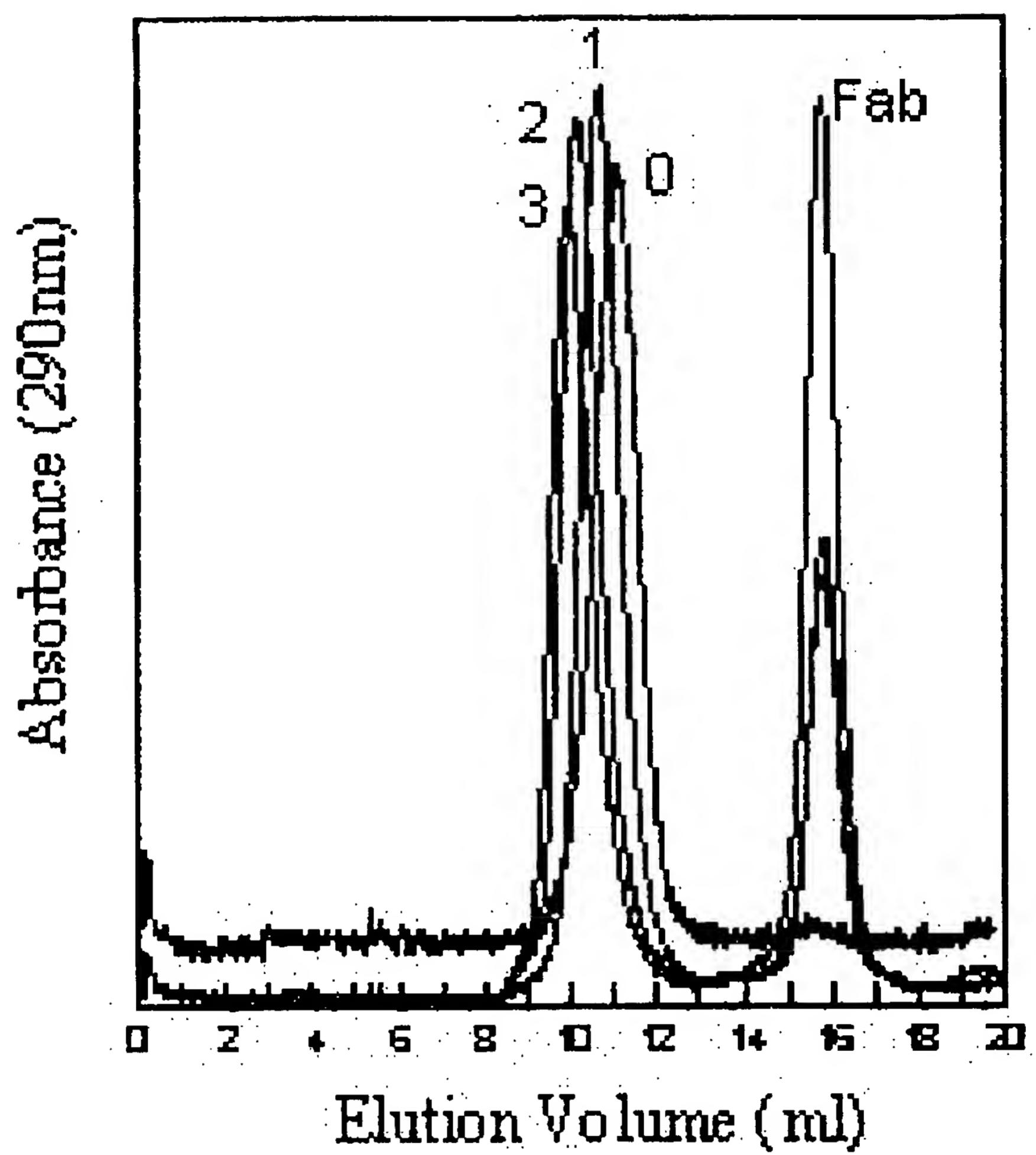


Figure 10

Schematic interpretations of EM images

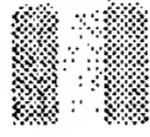
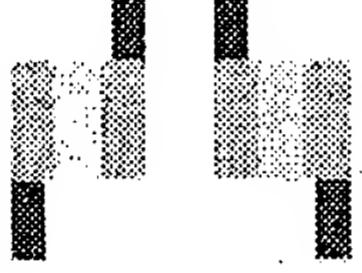
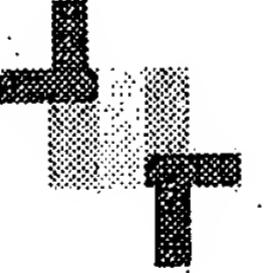
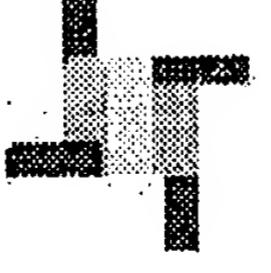
Sample	Projection along:		
	y axis	z axis	x axis
hIR			
hIR/83-7			
hIR/83-14			
hIR/18-44/83-14			
hIR/83-7/18-44			
hIR/83-7/83-14			

Figure 11